# Mining Journal

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THE MINIOR ROLE BALL BALLWAY AND COMMERCIAL SAFETY

forming a complete record of the proceedings of all public companies.

No. 641.—Vol. XVII.

LONDON, SATURDAY, DECEMBER 4, 1847.

[PRICE 6D.

Stannaries of Cornwall-In the Bice-Warben's Court.

THEREAS, the VICE-WARDEN did, by an ORDER

HEREAS, the VIUE-WARDEN GIRL, DIRLY DRIVER OF
DECREE, made in the above-mentioned cause, and bearing date the 13th day
November inst., Order and Decree that a SALE be made of the PARTS, or SHARES,
or SHARES,
or SHARES, or INTEREST OF the said DEFENDANT in WEST TOLGUS and TRELOWETH MINE,
the parish of ILLOGAN, within the said Stannaries, under the direction of the Restray of the Court, and that the proceeds of such said should be applied by the said Restray in the manner directed by the said Order or Decree.
Notice is hereby given, that, pursuant to the said Decree, a PUBLIC AUCTION will
HOLDEN at Andrew's Hotel, in the town of REDRUTH, on Friday, the 16th day of
secomber next, at Three Scieck in the afternoon, for SELLING, in such tots as shall be
en and there determined on, EIGHT (295ths) PARTS, or SHARES, of and in the said
and there determined on, EIGHT (295ths) PARTS, or SHARES, of and in the said
For farther information, application may be made to Measur. Fussingham and Simson, Soilctors, Truro.

colicitors, Truro. d Registrar's Office, Truro, Nov. 24, 1847.

Stannaries of Cornwall—In the Bice-Warden's Court.

WHEREAS, the VICE-WARDEN did, by an Order, or Decree, made in the above-mentioned causes, and bearing date the 16th day of Movember last, ORDER and DECREE that a SALE be made of the PARTS, or SHARES, and INTEREST of the said defendant in WHEAL BUCKETTS MINE, in the sarrial of REDRUTH, within his said Stamaries, under the direction of the Registrar of this Court; and that the proceeds of such asis should be applied by the said Registrar as the manner directed by the said Order, or Decree, a PUBLIC AUCTION will be HOLDEN at Fearce's Royal Hotel, Turo, on Wednesday, the 16th day of December matant, at Four o'clock in the afternoon, for SELLING in such lots as shall be then and there determined on, NINE (256ths) PARTS, or SHARES, of and in the said mine, and the like parts, or shares of, and in the ORES, HALVANS, MACHINERY, and MATERIALS, end other EFFECTS upon, and belonging to, the said mine.

For further information, application may be made to Mr. H. S. Stokes, solicitor, Truro. Dated Registrar's Office, Dec. 18, 1847.

Stannaries of Cornwall—In the Vice-Warben's Court.

Stanmaries of Cornwall—In the Wice-Ediarden's Court.

TIPPET v. BENNETT.

WHEREAS, the VICE-WARDEN did, by an Order, or Decree, made in the above-mentioned cause, and bearing date the Thirteenth sy of Movember lest, Order, and Decree, that a SALE be made of the PARTS, or SHARES, and INTEREST of the said defendant in WHEAL HENRY MINE, in the parish of ENWYS, within the said Stannaries, under the direction of the Registrar of this Court, and that the proceeds of such saie should be applied by the said Registrar of this Court, and that the proceeds of such saie should be applied by the said Registrar in the manner irected by the said Grove, or Decree. Notice is hereby given, that, pursuant to the said etcrea, a PUBLIC AUCTION will be holden at Pearce's Royal Holel, Turo, on Wedesday, the Fifteenth day of December instant, at Three o'clock in the Afternoon, for ELLING, in such lots as shall be them and there determined on, ONE (196th) PART, or HARE, of and in the said Mine, and the like Part, or Share of and in the ORES, HAWANS, MACHINERY, and other EFFECTS, upon and belonging to the said Mine.

For farther information, application may be made to Mr. H. S. Stokes, solicitor, Traffo. Bated Registrar's Office, Trare, December 1, 1847.

ARMARTHENSHIRE.-TO BE LET, OR SOLD, severa SEAM OF ANTHRACTE COAL and IRONSTONE, lying under the FARMS.
FREY, NEW INN, FOY, and ROSEFACH, situate in the parishes of LLANGENDERINE, in the said county. If required, the SURFACE also will BE SEED OF.—The above property is within a short distance of the Kidwelly Canal, stant from Pembrey Floating Harbour 8 miles, where the present demand for coal seeds the surply.

ant from Fomery Foating Harbour's miss, wisere the prosont cet and the supply.

er particulars can be obtained on application to Dr. Lawrence, Car John Griffiths, Abergwilly, near Carmarthen.

arthen, Nov. 29, 1847.

COLLIERY TO LET, IN SOUTH WALES.—A compact COLLIERY TO BE LET, IN SOUTH WALES.—A compact constant and floating dock at Llanelly, with which it is connected by a public and private altroad from the pit's mouth, intersecting the line of the South Wale Rallway, which also passes about a quarter of a mile from the pit. The spitty Copper-Works, adjoining he pit, as a distance of a few fields langth, have been very rocenty taken by a new company, who are just now commencing operations there. Ray access to those works may be had from the pit, entirely over the land of the owner of the colliery.

There are two engines, one of about 40, and the other 10-horse power, for pumping, and tring. The shaft, in depth, is about 40 fathoms, passing through two veries of coal—one of which only has been partially worked, for the purpose of proving the qualities of the sail, which is in high repute, as being excellent for coppers-works, sissue, mutha, and disar purposes. Another (third) with of coal has been proved, by borting about 16 mas eager than the present pit; and there are other view to be land, at a still greater depth. The engines plant, &c., to be taken at a given num, or by valuation, as may be agreed pon.—For further particulars, apply (by letter, pre-paid) to Benjamin Jones, Esq., soli
'ew, Llanelly, Garnastrientshire.

ALUABLE PUMPING AND WINDING ENGINES FOR SALE.—TO BE SOLD, BY PRIVATE CONTRACT, at WHEAL VOR MINE, at the parish of BREAGE, CORNWALL.—

1 80-inch DRAUGHT ERGINE, 10-Set stroke in cylinder, and 8 feet in shaft, main beam and caps, top nozzle, spring piston and rod—all new this year; with four boilers, of 12 tons each, in excellent repair.

1 80-inch DITTO, 10 Set stroke in cylinder, 74 feet in shaft, cylinder, piston, bottom and cover, meanly new, with two boilers, of 12 tons each, and three boilers, of 10 tons seach, all lately thoroughly repaired.

1 49-inch DITTO, 9 feet stroke in cylinder, and 7 feet in shaft, without boilers.
1 20-inch WINDING ENGINE, 5 feet stroke, with two boilers, of 4 and 6 tons, and westlead cage, all in complete repair—the boilers and some other parts nearly new.

18-inch DITTO, 4 fix troke, with one boiler, of 5 tons, and borisontal cage, complete. Several TONS of straight and turned STEAM-PIPES.

1 23-beach GAST-IRON STAMPS AKLES, with bearings, oak frames, &co., complete. A powerful WEIGHING MACHINE, nearly new, comprising every requisite. An immense number of PUMPS, matching-pieces and windhores, 12 to 17-inch bore, with working barrels, deorpieces, H-pieces, cases, with stuffing-boxes and glands to match, from I1 to 9 inches bore, and plunger-poles, from 12 to 19 diameter.

Eggeotied rod and cap plates, 6, 7, and 8 inches wide, staples and glands, eyerunners, caps, seadles, troughs and guidgeous for balance and other bole.

Application to be made to Capit R. Blight, jun., on the mine.

Deted Nov. 29, 1847.

H. B.—The above are of easy transit to Hayle wharfs, and from thence on ship-board,

ere of easy transit to Hayle wharfs, and from thence on ship-

TWO WATER-WHEELS FOR SALE.—A WATER-WHEEL, 24 feet disaster, 6-feet breast, with cast-iron rings, flagges, cranks, unber blocks and besses, the whole of the cast and wrought-fron—making, together, out 5 tons.—The wheel is in excellent condition, and may be viewed at South Devon soils filme, near Ivy-Bridge, in the parish of Ugborough, Devon, where it was erected, about 15 months since.

ow, about 12 months since.

A WATER-WHEEL, 34-set disages, cranks, plumber blocks an energe of the since idge, near Barnstaple, Devon. L, 34-feet diameter, 4-feet breast, with wrought-iron axie, cast for brokes and breases.—This wheel is in excellent condition, by fing nonths since new; it can be viewed at East Coombe Mine, Swymie, Devon.

the above, application to Mr. J. E. Mare, Plymouth Foundry, Plywa Immediate attention.

UPERIOR STEAM-ENGINE.—TO BE SOLD, a STEAM-ENGINE, of so-inch cylinder, single-acting, with 11-ton boiler, condensing appa-spring beams, and first piece of red—now at PWIEAL GILL, mer. LISEEARD, rail, where it was erected new in 1846, of stout meterial, and on the latest and me-ved principile; is perfect, and can be confidently recommended as of first-rate quality, wer.—Also, 38-5ms. life of 18-inch PUMPS, with plunger-pole, case, &c., complete,

N SALE, at the PROVIDENCE MINES, near ST. IVES
a STEAM FUMPING-ENGINE, with boiler, complete—30-inch cylinder, an
appearer, 1849, 1849, and 1844.
At the NORTH UNITED MINES, near PENZANCE, a STEAM-PUMPING EN
ZURE, with boiler, complete—30-inch cylinder, 9-sec stroke, and 7-inch the shaft; in

Apply to the agents a Dated Oct. 30, 1847.

FOR SALE, BY PRIVATE CONTRACT A SET

Axe, London, where only passages can be secred throughout.

W. SILVER & CO., CLOTHIERS, NAVAL, MILITARY,
and GENERAL OUTFITTERS and CONTRACTORS, respectfully acquaint the
public, that they have completed the alterations at their warehouses.

Not. 65 and 67, \*\*ORNHILL, LONDON,\*\*
which boables them to concentrate and exhibit all the requirements of an OUTFIV. Being the manufacturers (with experienced managers) of the chief and most expensive portions of outfits, they are enabled to produce and render them at WHOLESALE PRICES—
thus preventing MILITARY and NAVAL OFFICERS, CADETS, and PASENCERS,
generally, sacrificing the usual intermediate profit. LADIES OUTFITS (which are under
the management of females) on similar terms.

SILVER and CO. having a correspondent in nearly every ENGLISH COLONY, their
customers may stall times awail themselves of their assistance. Silver and GO. pack and
ship their customers outfits, clear and warehouse their baggage homewards, procure and
give SHIT-SAILING information outwards or homewards, without receiving a commission to prevent
who introduce customers to them, that purchasers may derive every sin advantage.

The OUTFITTIES WHOLESALE and REFAIL CLOTHINO DEPARTMENT'S, &c.,
are at 65 and 67, CORNHILL, and at LIFERPOOL. The SHIRT DEPARTMENT for
home use is at No. 10, CORNHILL, and at LIFERPOOL. The SHIRT POTSER, the presuments.

ON AS.—The NATIONAL ECONOMIC is the outer BERRETEVENT.

AS.—The NATIONAL ECONOMIC is the only PERFECT BURNER—the only one in which the principle of perfect combustion is successfully carried out, and which possesses the greatest illuminating power with the least consumption of gas of any burner hitherto invented.—Vide published opinions of Drs. Ure and Bachhoftner, &c. The patentees are desirons that the public and the trade should indge for themselves as to the trath of these secretions, and not be led away by false representations respecting other burners, an experimental motor is, therefore, provided at the office of PAUL & Co., gas engineers, 13, Leather-lane, Holborn, where the most rigid test is invited.—Description, with diagram and testimonlals, forwarded face.—CITY DEPOT, Deano's, Monument-yard.

IMPORTANT TO RAILWAY AND STEAM NAVIGATION COMPANIES, MANUFACTURERS, AND ENGINEERS.

COMPANIES, MANUFACTURERS, AND ENGINEERS.

W. BROTHERTON AND CO.'S

PATENT LUBRICATING FLUID (or Animal Oil) FOR ALL DESCRIPTIONS
OF MACHINERY.

W. B. & CO, have the pleasure to state, that the above article is extensively used
her Majesty's Steam Navy, and by soveral of the principal Steam Navigation and Ra
way Companies, and is pronounced by them, and by the first practical engineers of ti
day, to be far better adapted for the purposes of indrication than any other article hither
used for such purposes. The Patent Lubricating Fluid is equally applicable for the me
intricate and fine pieces of smachinery, as for the heaviest bearings of the ateam-engin
It is cheaper, much more conomical, and cleaner than oils a tyresout in use; is free fro
smell, and calculated to effect a vast saying in the expenditure of working steam power
Further particulars can be had, and testimonials seed, by application to the manufaturers,
W. BROTHERTON & CO., Hungerford Wharf, Strand, London.
N.B.—The above article will burn in lumps, and give a light equal to the best sperm of

FLEXIBLE HOSE-PIPES FOR LOCOMOTIVE ENGINES, RAILWAY CRANES, FIRE-ENGINES, GAS, &c.

PATENT VULCANISED INDIA-RUBBEE HOSE-PIPES AND TUBING

These pipes are made to stand hot-water without injury—are very superior to leather pipes, or the common india-rubber pipes, and as they do not become hard or stiff in the lowest temperatures, or require any application when out of use, are particularly well adapted for fire-engines.

FLEXIBLE TUBING, of every description, for gas, chemical purposes, &c.—Sole manufacturer, Goswell Mows, Goswell-road, London.

c.—Sole manufacturor, Goswell Mews, Goswell-road, London.

VIADUCTS AND OTHER RAILWAY WORK.—The at-VIADUCTS AND OTHER RAILWAY WORK.—The attention of Railway Engineers, Architects, and Contractors is particularly directed to the great advantages to be derived from the application of SEYSSEL ASPHALTE, as the only supervious and permanent covering for arches and roofs, and fining of reservoirs, gutters, &c. The arrangements of CLARIDGE'S PATENT ASPHALTE COMPANY enable it to execute works of any extent with the greatest promptitude.

In order to guard against the use of spurious materials, it is important that all applications for works to be executed be made exect to this company; and, as a further protection, it is suggested that Engineers, Architects, and Contractors, should roquire a CERTIFICATE from the company that the proper description of material has been used.

Information may be obtained as to all works which have been executed by the company since its establishment in 1838, which will prove that the failure of many works represented to have been done with the genuing material has resulted from the substitution of apunious one.

Seysed Asphalte Company, Stangate, London.

PATENT KAMPTULICON (OR CAOUTCHOUG AND CORE) MATERIAL.

SCALE OF PRICES.

n nes in ickches.	eompared with wood.	square yard.	may be applied.
1-16	reson was an	20.	Felt for Sheathing under Copper, and in destroying galvanic action between the Copper and from- also, for Telegraph, as a perfect non-conductor, used by Electric Telegraph, Strand.
1-8	<i>-</i>	30.	For placing under Carpets, and as a Floor Cloth for Stairs, Offices, Assless of Churches, to deaden sound, and prevent noxious effluvia from vaults beneath. —See Passage to Lord Chamberian's Office, House of Lords.
	9 lbs., or one-third the weight of oak.	4s. 6d.	For Railway Carriages, Baffers, Shields, &c., and to place between Rails and Sleepers, Jointeey Iron Bridges, and to use, in all cases, where it is desir- able to destroy wibration, and obviole the effects of concussion—sead by the South-Western Railway, &c.
1-9	17 lbs., or ditto	100.	Lining for Floors of Carriages, Horse Boxes, and covering Walls of Riding-Houses, as at the Castle, Windsor.
3-4	97 lbs., or ditto	192.	Life Boats and other Shipping purposes—used by Mr. Raisey, of Course, on the Ganymede and Gon- dela, of the Royal Victoria Yacht Club, dv.
No.	at lbs., or ditto	16s. Gd.	Lizing Rooms and Floors of Lunatic Asylums, as at Behlem Hospital, Northampton, &c.

THE PATENT OFFICE AND DESIGNS REGISTRY,

No. 210, STRAND, LONDON,

NVENTORS will receive (gratis), on application, the OFFICIAL CIRCULAR OF
ORMATION, detailing the eligible course for PROTECTION of INVENTIONS and

STEAM TO INDIA VIA EGYPT, MALTA, ITALY,

ALEXANDRIA, AND THE PENINSULAR PORTS.

The Peninsular and Oriental Steam Navigation Company BOOK PASSENGERS for CEPLON, MADRAS, and CALGUTTA.

TRACTING with persons willing to SUPPLY this MINE with good STEAM COALS, for CEPLON, MADRAS, and CALGUTTA direct, by steamers leaving Southampton on the 30th, and for Alexandria, as reside to Bombay, on the lat of every month.

A steamer from Southampton leaves the lat and 20th of every month.

STEAM TO CORUNNA, OPOPTO, VIGO, LISBON, CADIZ, AND GIBRALTAR.

As the american southampton leaves to Bourbay, or of every month.

STEAM TO CORUNNA, OPOPTO, VIGO, LISBON, CADIZ, AND GIBRALTAR.

As the american southampton on the 7th, 17th, and 57th of every month.

AND LISBON, CADIZ, AND GIBRALTAR.

AND THE ERS, COMPANIES, &c.—A PRACTICAL ENGINEER, who is a good draughtsman, and competent to design and superincent of the construction of land and marine work, is desirous of OBTAINING EMPLOY.

MENT, either as DRAUGHTSMAN or as SUPERINTENDENT of MACHINERY.

20 M. STEAM TO CORUNNA, OPOPTO, VIGO, LISBON, CADIZ, AND GIBRALTAR.

As to continue to the construction of land and marine work, is desirous of OBTAINING EMPLOY.

MENT, either as DRAUGHTSMAN or as SUPERINTENDENT of MACHINERY.

Address, "S. C.," Mr. Cole's, 92, Gracechurch-street, London.

PO MANUFACTURERS OR ENGINEERS.—An ENGI-NEER, who has had considerable experience, whose to obtain EMPLOYMENT, to CARRY OUT any PATENTED IMPROVEMENT, or to SUPERINTEND ITS MANU-PACTURE: he has also an important improvement in connection with the steam-engine—being an extremely simple apparatus, by which the water, in either high or low pressure boilers, is always maintained at one level, preventing all chance of explosion from shortness of water—water addressed to E. Whitley Baker, care of the Editor of the Mining Journal, 36, Fleet-street, London.

WANTED—A CORNISH PUMPING-ENGINE, either
NEW or SECOND HAND, in good condition, with cylinder, from 80 to 90 inches
liameter; likewise, about TWO HUNDRED and FIFTY YARDS of PUMPS, 18 to 22
neches diameter.—Address, stating particulars, Mr. John Lancaster, Mostyn Collicy,
sear Holweil.

WANTED, upon a LINE of RAILWAY, in the SOUTH, in length about 160 miles, a good HEAD INSPECTOR of WAY and WORKS.—
No one need apply who has not held a similar situation elsewhere, and is not competent to undertake the checking of contractors' accounts.—Address, stating terms and full particulars, to Mr. R. J. Hood, C.E., Brighton.

COLLIERY MANAGER WANTED.—A GENTLEMAN, of active mercantile habits, who has the command of £1000 to £3000, to invest as surely (either as partner or otherwise), is WANTED, to MANAGE the COMMERCIAL DE-PARTMENT of a COLLIBERY. Salary £300 per annum.—Address "H. B.," care of the Editor of the Mining Journal, 26, Floct-street, London.—Nov. 29, 1847.

AMERON'S STEAM COAL MINE AND RAILWAY

paying 124 per cent.—FOR SALE, ONE HUNDRED SHARES, on advantageous

a.—Apply to Mr. Price, 2. Royal Exchange Buildings, London.

MINING SHARES FOR SALE.—THIRTY ORIGINAL and TWELVE ALLOTTED, SHARES in the WHEAL CURTIS COPPER MINE. Price, £95.—Apply to Mr. C. Drake, Bungay, Sumolk.

WILSON & FRASER, 2, WELLINGTON-BUILDINGS
LIVERPOOL, and 13, EXCHANGE-PLACE, GLASGOW, have always ON SAL
PIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS.

MR. R. TREDINNICK, THREE KING'S COURT,

LOMBARD-STREET, LONDON,
Continues to DEAL in every description of Mining, Rail-Wat, Banking, insuRANCE, CANAL, and OTHER SHARES.—Statistical information afforded granuitously
upon personal application.—MONEY ADVANCED upon the above securities.

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BRITISH MINING OFFICES, No. 12, HAYMARKET,
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At either of which places PROSPECTUSES and SHARES in the various SHLVER-LEAD
and COPPER MINES connected with these offices, may be obtained.
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CROKER, CLEMENT, & CO., CUSTOM-HOUSE, SHIP, STOCK, AND SHARE BROKERS, AUCTIONEERS AND APPRAISERS, ACCOUNTANTS, HOUSE, ESTATE, AND GENERAL COMMISSION AGENTS, No. 33, WHIMPLE-STREET, PLYMOUTH.

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PLYMOUTH WHEAL YEOLAND, AND PLYMOUTH WHEAL YEOLAND EAST-MINING OFFICES.

MONEY.—MESSRS. WINSTANLEY & CO., Sharebrokers any amount, on the deposit of English and Foreign Railway Shares, Scrip, and Debontures, upon exceedingly advantageous terms: they also BUY and SELL every descripting of STOCK and MINING SHARES, at much less commission than usually charged.

6, Bank Chambers, opposite the Bank of England.

TO MINE AGENTS, MINE SURVEYORS, &c.—
MATHEMATICAL, PHILOSOPHICAL, AND OPTICAL INSTRUMENT MAKER
ST. DAY, CORNWALL,
Degs to call the attention of MINE AGENTS and SURVEYORS to his MINES THEODOLATE, and other IMPROVED INSTRUMENTS, adapted to AIME SURVEYING;
and to assure them, that, from many years' constant application of his onergies in one of the most active mining districts to this particular branch of mathematical instruments asking, he fiather thimself he is able to furnish instruments, equal to point of accuracy and workmanathy, and superior ar regards adaptation to the wants of the miner, to those applied by almost any other house.

\*\*p\*\*A descriptive price list sent free per post, on application.

A USTRALIAN MINING COMPANY, 1, Adelaide - place
London-bridge, Nov. 22, 1847.—The board of directors horeby give Notice, the
a EXTRAORDINARY GENERAL MEETING of the shareholders will be HELD at the
mapany's offices, 1, Adelaide-place, London-bridge, on Monday, the 18th day of Decap
er next, at I verive o'clock precisely, to receive the directors' report on the present con
tion of the company, and to fill up the vacancies occasioned in the direction, by the in
gnation of Sir Hyde Parker, Bart., and the decesse of Samuel James Capper, Eag.

G. E. HODGKINSON, Secretary.

DEDFORD UNITED MINING COMPANY.—The direct of the BEDFORD UNITED MINING COMPANY hereby give Notice, the ECIAL GENERAL MEETING of the shareholders will be HELD at the offices of mpany, 51, 60 disread-street, on Thursday, the 9th Dee. next, at Twelve o'clock, sely, to consider the propriety of altering the present constitution of the company, beatituding the "Cost-Dook" System for it.

London, Nov. 18, 1847. ERIONETHSHIRE SLATE & SLATE SLAB COMPANY

—Notice is hereby given, that all SHARES in this company, upon which ALL of 10s, per share, made on the 4th day of April last, be NOT PAID into the vertical Bank of London, Lothbury, on or before the 18th day of December next, wantidered FORFEITED, and disposed of pursuant to the terms of the Deed of Settler S. Walbrook, Lendon, Nov. 30, 1847. ed FORFEITED, and disposed of p brook, Lendon, Nov. 30, 1847.

ERIONETHSHIRE SLATE & SLATE SLAB COMPANY.

-Notice is hereby given, that the TIME for PAYMENT of the CALL, made on left the July last, is EXTENUED, and that the same must be PAID into the Comercial Bank of London, Lothbury, on or before the 1st day of January next; or, in dealt thereof, the shares are liable to forbiture, pursuant to the provisions combained in a Deced of Scittlement.

NATIONAL BRAZILIAN MINING ASSOCIATION—
Notice is hereby given, that, after Wednesday, the 6th Dec., 1847, NO MONEY
will be RECEIVED on account of the FOURTH and LAST INSTALMENT of £1 per
share. By order, JOHN EERBYSTON, Jun., Secretary

IR JAMES MURRAY'S FLUID MAGNESIA.-Prepared It JAMES MURICALS PLANTS. ARCHITICAL MARCHITE, and established for appearation is recommended in all causes of bile, actifities, indigestion, gravel, as the most used, casp, and effectuals form in which magnesis may—and, the only one in which it ought—to be exhibited, possessing all the proporties of twis now in general use, without being flable, like it, to form thangarous concrets to bowels, it effectually cure magnesis without injuring the coats of the storal a, potness, and their carbonates are known to do; it prevents the food of infection of the storal cour; in all cases it acts as a pleasing aperient, and is peculiarly adapted to It has long been known that the most errious consequences have frequently from the use of solid rangents, which has been proved by Mr. Brande and minimant chemists, to form concretions in the lowest, endangering, and, in so ea, destroying lifes.—Sir HUMPHREY DAY testilled that this colution is a combinations with uric acid salits in easewed gout and gravel—thereby countered it injurious tendency, when other alkalies, and even magnesis itself, had failed as Sir PHILIP CRAMPTON, Bart., Surgeon-General to the Arny in Ireland.

"To Sir James Marray, Dublin.

"The following testimonial of the solebrated." Distits Familty," who are well known to e Majesty and the mobility of England, proves the great value of Sir James Marray's it magnesia, and is very escouraging for delicate persons going to sea:—

"Sra,—Having arrived from Glage, per the steam-ship Jupider, in this stormy seastage and the substitution of magnesis and acidulated syrug, a without the slightest sea sickness, we find bound to attribute this exemption to the stagestone with the significant of the sea single season of the season of the significant of the season of the season of the season of the season we were martyrs to sea sickness, and we think it a great blessing that travellers y now enjoy such health and comfort at sea, as we derived from the use of this delightderica.

"To Sir J. Murray.

To Sir J. Murray.

Tothill's Hotel, Dawson-street, Dublin, Feb. 19, 1829."

From Dr. KENNEDY, Master of the Lying-in Meopital, Dublin:—

TORAS Sr.,—I consider the fluid magnesis to be a very enhable and convenient remedy nice of irritation or acidity of the stomach, but more particularly during pregnancy, tile complaints, infantile diseases, or sea sickness.

a addition to the above, Professor Dancan, of Edinburgh, in his extensive practice, blished its officacy for removing acidities—salaying irritation of the stomach or uringrams, and for dissolving lithic concretions and urle salts; and, consequently, as the remedy for gravel and gout.

AUTION.—In order to avoid the danger of concretions and sediments, which result the use of over-saturated and unchemical compounds, made by non-medical periods, the public will please to observe, that Sir James Murray's pure fluid magnesia is sarred of the proportion of strength which is conformable to the laws of chemical equints, and which has been proved, i

Sat his name is stamped on each label, in green int, as follows:—"James Murray, Physician so the Lord Licutemant."

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Transactions of Scientific Bodies.

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# On Mining, & the Practical Applications of Seological Science. PROF. ANSTED'S LECTURES, AT RING'S COLLEGE. LECTURE IX.—THE PRACTICAL APPLICATION OF GEOLOGICAL SCIENCE TO MINE

LECTURE IX.—THE PRACTICAL APPLICATION OF GEOROGICAL SCIENCE TO MINING.—
THE NEWCASTLE COAL MINES.

The SECON ADVERGE commenced by saying, that he proposed, in this heture, to consider
the subject of coal mining with regard to a particular district.—the Newcastle coal-field
—taking that as the most important, at the present time, in the world; and one, therefore, which ought to exhibit an "cample of coal-working to the greatest possible advantage. This, he believed, was the case; and that the Newcastle district presented the best
specimen of coal mining to be met with anywhere. It was probable that, in Staffordshire, in Wales, and in other districts, good methods, well adapted to local circumstances,
were in operation; but, as a system, and as a regular and complete whole, none were to
be compared to the processes in operation in the Newcastle field, and it was improbable specimen of coal mining to be met with anywhere. It was probable that, in Stafford-shire, in Wales, and in other districts, good methods, well adapted to local circumstances, were in operation; but, as a system, and as a regular and complete whole, none were to be compared to the processes in operation in the Newcastic field; and it was improbable that instances could be found where so much skill, science, and estonomy, were employed in obtaining the mineral fuel as were every where perceptible in that remarkable district. In every coal "country" there was something characteristic, which distinguished it from other districts; and this was naturally the case; for, wherever there were shafted and sixty in the country of the was naturally the case; for, wherever there were shafted and sixty in the country of the country of the country would always be found, grouped together, cortain manufacturing establishments, requiring and the fuel! because local circumstances were favourable to finds being carried on together the country of the country of

without the assistance of venam-machinery, they would never have been able to get rich of the water in these precedit pits, and many valuable mines would be utterly assistance of the water in these precedit pits, and many valuable mines would be utterly assistance, and partiy with the new red sandstone, was the most remarkable part of its field; and there was no reason to doubt that coul existed there, at very great depths—much below those litherto attained. The district, near the river Wear, was covered up with magnesian libeatone; but this could be, and was, obtained.

The whole district was divided, very convalicatly, into two portions, by the Types and the Wear; that on the north of the Wear being called the Type district, and that south of it the Wear district. The tract between these two rivers might be called the "New-castle field," though that name was sometimes given to the whole. It was also evastome are to easied the river was sometimes given to the whole. It was also evastome are to easied the river was sometimes given to the whole. It was also evastome are to call subdivision, in consequence of the cropping out of the beds. While on this point, he might mention, that the work by M. Piot, on the coal-field of Newcastle, was the best that had been printed. They would there find all the divisions and subdivisions well described, and, the author being invested with a semi-official authority, their correctness might be depended upon.

The total number of workable seams in the whole district was considerable; but the largest number worked it one area had seldom exceeded five. They varied in thickness, about 7 ft. being the maximum. The northern, or Type division, was the most important. One of the thickness was a good deal worked; but "the Bensham" seam was the most important. One of the thickness was a good deal worked; but "the Bensham" seam was the most from markable, in consequence of the large quantity of gas it contained, which readered its medi dangerous to work, and in it occurred more sectletits

sees, &c. &c. twould be obvious that, where so many men were employed in operations attended with so thused danger to human life, the mest perfect subcritication and management were indispensable.

He now same to the main question, that of extracting the coal. In the first place, a coal district was known by the outcrup, as seen in roes and other cuttings, and in rivers. The coal being seen at the surface, a "section" was next required, in order to learn the direction in which it went. Knowing that the materials of which the earth's crust was composed were generally proceeded in a tolerably required state, and, being aware of the sort of faults which were common in the district, it had next to be decided whereabouts the coal should be sought for, by going under ground for 12—as, in general, it was not good at the surface, where it was injured by exposures. The section usually adopted had reference to all the circumstances of the case. In the Newcastic district, the miner must arrange according to the nature of the same of the field he could lease; for ground could not there be had very easily. Having obtained and, under which coal was supposed to exist, but of which there was no direct evidence, it was necessary, is order to budge of the reality of the existence of the coal, to know the general relations and local circumstances of the strata; and these could say be learnt by studying the society of the district. By such means only could the probable results of mining operations be indicated. Having discovered the dip of the coal—the amount of the dip, as well as its direction—and the nature of the different faults in the neighbourhood, it was necessary, before similar as that, to obtain a knowledge of the material which must be passed through, as to whether they were hard, or soft, or full of water, or the reverse. These were all considerations of great importance in calculating the expose of such operations, and it might be incossary to obtain that information by boring. In a district like Newcaste, the could

On Eron—its Actibe and Enactibe States.

MR. THOMAS SPENCES 'S ESCUES AT LUYEROOL.

PART L.—ATMOSPHERIC CORRONON.—Continued from last work's Mining

servations on corrosion already made, have chiefly had a reference to wrought able iron; but when the metal is in combination with carbon, and forming the a known as cast-iron, corrosion, under the ordinary circumstances of atmospheric

former, as already stated, being in the highest degree susceptible of combinate oxygen; while lastes, under similar circumstances, is, perhaps, above all he nature, the least so. Let it be understood, that the observations made regarding is micel combination of iron with oxygen—whether to be obtained from air, water, one are meant to apply to atmospheric temperatures only, no matter how high the hested to redrees, as well known, iron will rapidly combine with the oxygen of each of the combined of the combined of carbox. When east-iron is exposed to mosture in the strategibler, oxygen cowiff its from only, the oxide first formed being generally removed by rain, leav carbon on the surface, divested of metallic lustro. Sion, the carbon so left ob plays the part of a protector to the straine, leaking at it mechanically; in other it has received, as it were, a costing of highly comminated carbon, which, to a carteful, adheren; and atthough the iron is still accessible through the interstices far it is protected; and, moreover, the farther the oxidising action descende bene surface, the greater the quantity of carbon exposed, to say nothing of the slith the interstices themselves with the oxide so formed. Protection, to a containing water, which, on the occurrence of free, becomes lee, the built being quently enlarged, the combined coating of carbon and calce of nor is thus located containing water, which, on the occurrence of free, becomes lee, the built being quently enlarged, the combined coating of carbon and acide of nor is thus located containing water, which, on the occurrence of free, becomes lee, the built being quently enlarged, the combined coating of carbon and calce of nor is thus located and the combined coating of carbon and calce of nor is thus located to the combined coating of carbon and calce of nor is thus located to the combined coating of carbon and calce of nor is thus located to the coating of carbon and calce of nor is thus located. A calced, either by rain, its own gravity, or very alght the

same energetic action takes place as at first. We are thus naminated with an example of the two states of from being present in one piece.

A variation of this experiment may yet be made, which will afford, perhaps, a still more striking example of the protective influence exercised by the cardion. Let us take the same wire, and once more immerse it in the aktic action—the carbonized and first, and the rest very gradually. It may thus be wholly covered with the actio, and so tenders inactive throughout.

inactive throughout.

This experiment does not success if hastily performed, but by gradual and alow is sing, time seems to be afforded for one particle of the protected or inactive ear commandeste the influence to the next, and so on, until the whole is rendered in As that sight, these experiments would lead to the conclusion, that in all probabilities effectually protected from further correction by a centing of it situational carbon, when immerced in sea or river vator, seeing that such a coattine of the protective influence throughout the uncoverd mass, and this, too, in a body, so corrosive, as strong aquafortis. Unfortunately, this is not found so hold good full extent in practice. For example—if the strength of the acid be reduced by different the coating of carbon to longer carest the same indicates in protective surface from its action. On the contrary, it sught be above that the dissolution

In other words, were the texture uniformly soft, corrosion would not proceed with so much rapidity as we find it does in such an instance, nor is it difficult to determine the reason of this apparently anomalous phenomenon. It arises from the fact of the harder iron becoming, in the language of voltate cleatricity, "negative," while the softer park, on the other hand, become, in relation to it, "positive;" and both heing in connection, a voltate "pair" is thus established, which I need carcely observe is procleedly the most favourable state that could well be imagined to produced where the iron casting is an homogeneous in structure, as the greatest care taken in cooling, together with uniformity in shape, can make it. This will occur should such a casting be submerged at the mouth of a river, subject to an ebb and flow of the tide. In this case, while the tide is rolling the denser soa water inwards, the river water still continues flowing downwards, but over that of the case; large bodies of water by no means mingling so quickly, or so effectually as we might be led to suppose, mong particularly when their clearlites are constantly different. A cast-tron pile, for instance, placed in those circumstances would be "polarised," one end of which, the bottom, would be negative, while the support or one would be positive; hence corrosion, as in the former instance, would be materially accelerated.

I may remark, in comulding these brief observations on the subject of corrosion, that Iron, above all the metals we are acquainted with, is most subject to internal amendally impossible to procure a casting of any magnitude, or or the top; the larger the mass, the of attracture—causes apparently slight will effect this. It may be decrete built of wrought impossible to procure a casting of any magnitude, or or, the larger the mass, the office of the subject of corrosion, that shall be perfectly alike in texture when the process from the top; the larger the mass, the office of the subject of the subject of the subject of t

Nov. 24.—T. Webster, Esq., M.A. (Vice-President), in the chair.

The first communication read was on Mr. Dutton's Railway Communicator.—Mr. Dutton proposes that a small metal pipe should be fixed in some convenient part of each railway carriage, and connected at its extremities with the carriage preceding and following it, by means of a short length of vulcanised India rubber tubing, and a kind of bayonet fastening; at the end of the tube, near to the guard's seat, a whistle is to be fixed, which will be capable of being sounded by the passengers, by their blowing into a small branch tube, to be fixed in each carriage, in connection with the metal pipe.—A model of the invention was exhibited.

wention was exhibited.

The second communication was by Mr. F. Brothers, on his plan for forming a Communication between the Passengers, Guards, and Drivers of a Railway Train.—Art. Brothers proposes, by means of a fly-wheel, to be worked by the rapid current of air passing through it, to set in motion a multiplying power, which shall work a small air-pump, and compress air into a chamber, in connection with which two whistles shall be fixed—one of these the passengers are to be capable of sounding, by allowing the compressed air to excape; the second whistle is to be of a different size and seund—entirely under the control of the guard, and only to be used when it is necessary to stop the train.

The third communication read was by Mr. E. E. Allen, on his means of effecting a communication between the same parties.—Mr. Allen proposes to make use of electricity as a means of sounding the steam whistle. Galvanised wires are to be carried along each of the carriages of a train, and the electric circuit is to be completed by the use of galvanised coupling chains, which, so long as the circuit is complete, magnetises a piece of soft iron, and holds a detent attached to the steam-cock; but whenever the circuit is broken, the iron is demangeratised, and the detent allowed to go free, when the steam escapes, and the whistle is sounded.

The fourth paper read was by Messrs. Brett and Little, on their method of fewning and the circuit and

The fourth paper read was by Messrs. Brett and Little, on their method of forming a miniar communication.—In this plan, as in Mr. Allen's, it is proposed to use an electric urrent—the circuit of which is to be completed by means of wires and chains, but is to ct only when the circuit is complete, when a bell is rung.

ON STEAM-BOAT EXPLOSIONS.

To the Rt. Hon. Load Denman, Lord Chief Justice of Her Majesty's Court of Queen's Bench.
My Load,—In offering my humble apology for the liberty I now take, in thus addressing your lordship, allow me to remark, that my great—indeed, my only—object is, that all the facts relative to the late explosion on board the Thames steam-boat Oricket, and the subsequent trial of the engineer, "Heaseman," should be brought to light and made public. My cause for so doing, I now feel called upon to explain.

That I am not influenced by any party spirit, will be randered salf-original.

in. My cause for so doing, I now she called upon to explain.

That I am not infinenced by any party spirit, will be rendered self-evident when I state, that I am not, or ever have been, in the employ of any steam-boat company trading on the Thames—I hold no shares in any, nor do I expect to derive any emolument from their success or otherwise. I am but a working man, but one most deeply alive to the interests of my fellow-workmen. Had the engineer of this boat been convicted after all the evidence that might have been brought forward in his favour, and which was in the court, ready to be produced—had he then been found guilty. I make bold to state, that it would be culpable in any person employing him in future, where the lives of the public might sgain have been hazarded: had he been convicted under such circumstances, his character would have been justip blasted for ever. But what, my Lord, are the real facts of the case; the engineer, on certain attempts being made to reduce his salary, left the services of the Am and Mes company—in which situation he remained for a period of 14 weeks, without any cause of complains. He was applied to, to return to the Am and Mes and Mes company; and, being told that his wages should be as heretofore, he complied—was placed on board the uniortunate Cricket, by his superintendent, Clark, against whom so much has been add, do not blame Mr. Smith ; that gendeman imagined he had proper servants in cause of the accident), at the time of Hesseman taking charge of her, the facts I am now going to state will show, and which I challenge any one to disprove. But here, let me add, 4 do not blame Mr. Smith; that gendeman imagined he had proper servants in charge of proper and safe instruments—he paid them a fair salary, and thought he was perfectly ask: this is proved by his almost daily visits, and placing himself it positions of the greatest danger.

sadd. I do not blame Mr. Smith; that gentleman imagine no ma provided the was charge of proper and safe instruments—he paid them a fair salary, and thought he was perfectly safe; this is proved by his almost daily visits, and placing himself in positions of the greatest danger.

In investigating this affair, I shall divide it into three heads—the Boiler: its Appendages; and the Meass taken to inform the engineer the amount of pressure within such boiler. The Boiler was constructed by Mr. Joyce, who afterwards received it, and stated that it was made to his entire satisfaction; the front plates being slightly convex, on delivery, or one of them; that the front plate of the boilers of the Asi and Ber were § those of the Cricke\*, and he stated, in his belief, they were sayed the same; this is an error—the front plates of the Asi and Be are, as stated, § but this § plate extends to the safe-pit of the boilers, whilst, in those of the Cricke\*, a narrow § tube plate was employed—the top and bottom of which was read out pto the diameter by pieces of boiler-plate of only § of an inch thick. We have here, therefore, a reduction of 50 per cent. In the thickness stated by Mr. Joyce (viz., §), and reduced at the lower part, or sal-pit—that part where correction, of necessity, would take place most rapidly. The boilers are, also, not suped, as those of the Ari and Bee, which Mr. Joyce ought to have known; these boilers have stays of § round iron, running from the back to the front, whilst those of the Cricket had none—leaving the faulty quality of the iron out of the question. I will now take the boiler, as fitted to the Cricket, without disputing whether the supposed flat plate in front (the objectionable part) was convex or not—a point on which Mr. Joyce and his foreman differ: the two boilers were constructed to work at a pressure of from 45 to 50, not more; they are placed on board the vessel, and immediately pressed to 66—nearly one-third more than the pressure contracted for; the front plates, at the juncture of the § edge, that he (Kent) was mistaken, and the plate was fest, although stated to be correct on delivery. After passing through several lands, these boilers, previously overstrained by his predecessors, are placed in Heaseman's charge—no opportunity given him to examine them, essam being up, and the vessel but a few days proviously returned, after a thorough repair, from the establishment of Mesars. Joyce and Co. The explosion occurs—the unfortunate engineer, whose life is awed, is put upon his bital, and a verdict of "Manaiaughter" is returned by a coroner's jury. He applied to me to investigate the cause of the calamity for him. Government engineers were appointed by the Board of Trade, to examine and ascertain the cause of explosions. Mr. Joyce is allowed to accompany tham, and a feeling, which does honour to Mr. Beford (the coroner), caused him to request that some one attended with the accused party, on his behalf, when the Government engineers (Alessars, Lloyd and Hughes) made if mapection. I was again, at the wish of Heaseman, and with the concurrence of the coroner, the party appointed. A great amoust of unmerited eddium had then fallen on the prisoner, by parties who had heard of the practices alleged against his predecessor. Knowing the character of the man, I was in the contracting the patiently all facts; I had only the few hours in the evening to devote to this purpose, after my usual avocations—and the facts I elicited, being deemed worthy of being presented in the Central Criminal Court, I now he provided, being deemed worthy of being presented in the Central Criminal Court, I now he provided, being deemed worthy of being presented in the Central Criminal Court, I now he provided, being deemed worthy of being presented in the Central Criminal Court, I now he provided, being deemed worthy of being presented in the Central Criminal Court, I now he had been to be also a superior of the presented of the completion of the presented on the series and the shell about the few hours in the even and the shell

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port for the interior of the boiler, weighing over 600 fees, which, if mesupported, at its after end, would have a lendancy, by its downward pressure, to separate the lower-part of the fast plate from the cylindrical shell. Now the consisted, at the time, of two places or shell. Now the case has been consisted, at the time, of two places are land. Now the case particularly the back consisted, at the time, of two places are land. The strong twich the consisted particularly the consisted, at the time, of two places are land to the strong the case particularly the consisted particularly the consisted with four stays; these had not, where or places to the case are large to the case are large to the case after the completed by the boiler-maker, and \$6, 2, the position they presents how the angle-irons should have been placed, to form an efficient stay. By the extraordinary pressure which, at some previous period, had been put upon the boiler, the bulging of the front plate, as shown at \$6, 6, had lifted the whole of its interior, as shown and, on the steam diminishing, the pins had been drawn too far forward to assume their original position. That this was not caused on the day of the explosion is easy of proof—the incrustation on the angle-iron is about it to fan much thick—that in the holes, left vacant by the removal of the pins, as shown in \$6, 2, of nearly the same substance; and this is formed, in both cases, where no person could get to remove it, nor any heating of the metal cause it to shell off—consequently, it must have been disruptured months prior to the accelent—probably, at the time if was pressed to 80, and yet not noticed, on the vessel's overhaul, at Messra. Joyco's, which occupied from the 3d to the 8th of Augustaperior of about 19 days, prior to the explosion. Here, then, we have a boiler, which would, perhaps, for some months have withstood the pressure for which it was constructed, but in a state ready to be forced asunder, on the accession of steam, to any amount, from accident, or otherwise—a

TABLE,

Exhibiting the Gross Pressure in Flat-plate of the Cricket's Boiler, taking it at 6ft.

the Gross Pressure in Plat-plate of inch Pressure in front plate of boiler.

...Toss 63 2 26 59 51 71 18 104 75 14 96 82 0 101 83 6 16 88 7 14 96 100 1 107 100 1107 107 89 113 12 2 te of boiler.
119 18 27
126 4 52
132 14 29
138 16 102
145 3 15
151 9 40
157 15 65
164 1 90
170 8 3
176 14 28 95 100 105 110 115 120 125 130 135 140

| Act Pres. per sq. inch in Cricke's boiler.

This was the pressure admitted by Mr. Meecham.

† The maximum pressure, as stated by Mr. Lloyd.

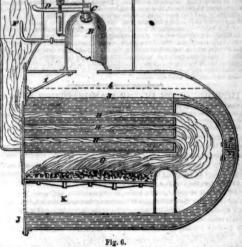
† An error of construction, which, in the explosion at Mesars, Samuda's boiler, existed to a still greater extent. In that case, the area of the valve being over 19 square inches, and the area of the annular ring around it under 5—an error of construction, first pointed out in this Journal.

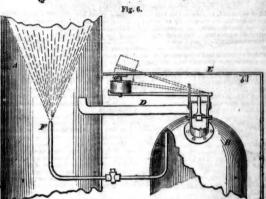
† An experiment, tried by Mr. Burney, the highly intelligent superintendent of the Civiess Steam-beat Company, proved that, by reducing the orifice of the blast-cock, originally 7-16ths, to 18ths, a diminution in the average consumption of fuel, to the extent of nearly two sacks daily, was effected, and yet sufficient draught maintained—a reduction in the gross amount of nearly 1-12th. This instances what care and attention can accomplish to the finances of a company. when under the superintendense of an inchligent was

the height of the column of mercury—I lb. to every 2 in. of.
The preceding table is assuming the amount of error equal to 1 inch, as proved by the evidence of all the wimese vessel commenced running for passengers, 40 to 45; Edward 48; Fatter, 40; Clark, 40; and Reaseman, 36 to 46.

Park Terror, Batterson, Dec. 2.

E. WHITLEY BAKER.





DESCRIPTION OF THE ENGRAVINGS.

DESCRIPTION OF THE ENGRAVINGS.

Fig. 1.—A portion of the boiler where the raptured stay was situated. A, hemispherical shell at back part of boiler casing.—B, back of tube box.—C, four rivetts, which appear to have been punched for the angle iron on the tube box, but afterwards shifted no about 3 inches.—D, the dotted lines represent the spot where another angle iron should have been placed, to form an efficient stay.

Fig. 2.—The same as fig. 1, but introduced to illustrate the position the angle iron had assumed, long prior to the date of explosion—the light line showing amount of incrustation.

Fig. 3.—Horizontal view of the angle iron on the shell, or outer casing—the two centre holes being much corroded; the one under the pin, the bent head of which is represented in fig. 4, entirely filled with incrustation.

holes being much corroded; the one under use pan, the best neat of which is represented in fig. 4, entirely filled with incrustation.

Fig. 4.—The angle iron, on fire-box, with the pin, shown in the second hole, on the left hand side—the hole for its reception, in fig. 3, being stopped up.

Fig. 5.—A section of the boiler, when in its perfect state, on a scale of \$\frac{2}{3}\$ that of an inch to the foot. A, lower portion of funnel.—B, steam dome.—C, valve-box, fitted with Salter's spring balance.—D, waste steam-pipe, of 1\frac{2}{3}\$ internal diameter.—E, top of steam-casing. F, blast-pipe, leading from the upper part of the steam dome to the lower part of the fairness, and provided with a cock, for shutting off the steam when not required.—G, furnace, through which the flame passes over the bridge into the back of the tube-box, and from thence through 6\frac{2}{3}\$ tubes, H, H, H, into the amoke box, in immediate communication with the funnel.—J, the lower part of the fair-pide, at the sal-pide which plate was originally \$\frac{2}{3}\$ that thick, but corroded to \$3-1\frac{2}{3}\$ the shire of the plate, the plate, the heads continually in a wet state; to this piate was rivetted the \$\frac{2}{3}\$ the ashes continually in a wet state; to this piate was rivetted the \$\frac{2}{3}\$ that thick, Stafford plate; the other boiler, when subjected to the hydraulic test, rupe-turned at the point J also.—K, ash-pli: fig. 3, in this cut, shows the level of the water in the boiler at lower gauge—cock situated 7 inches from the top of the upper tables; 4 furlevel at second gauge cock—4 inches above the former. The dotted lines down the flathate in front, represent accurately the amount of deflection of such plate, amounting to \$\frac{2}{3}\$. In this correct of the under the fire-box.

Fig. 6.—An enlarged sketch of fig. 8, across the upper part of steam dome; A, funnel \$\frac{2}{3}\$ the steam of the

ted lines over the five-box. Fig. 5.—An enlarged sketch of fig. 5. across the upper part of steam dome; A, fu B, steam dome; D, waste steam-pipe; E, top of steam casing; a, 14 inch angle similar to one shown at 5.—the weight is here shown inverted, as applied to the lark weighted steelyard lever valve of the unexploded boiler.—The lower dotted lines reprite rise of weight requisite to allow an area equal to the waste steam pipe, the upper the rise giving free access to the online area of the valve.

# THE CRICKET STEAM-BOAT EXPLOSION.

We have been requested also to publish the following remarks from the Sun:—

"The trial of Heaseman, the engineer of the Cricket steamer, at the time of the melancholy accident of the 37th of August last, took place on Friday, and has terminated in his conviction on a charge of manslaughter. The jury accompanied their varidic by a recommendation to the mercital consideration of the court, for the following reasons-viz:—That the company to whom the beat belonged had not given him proper instructions, and had not employed properly qualified persons to act as engineers. Now, we confess we do not quite understand the reasons for this addendum, nor can we concar in its propriety. The only grounds on which Heaseman could be convicted were, either that he had taken upon himself duties which he was incompetent to discharge, and that the explosion had occurred in consequence of his ignorance, or that, being duly qualified, he had not exhibited sufficient care and attention, and that is had been the result of his negligence. Had it arisen from the defective quality of the machinery, or anything not immediately under his control, or within the sphere of his duties, he should have been acquitted of the charge. The jury, by their recommendation, proved that in their opinious the accident was ascribable to the former cause—that it was owing to his ignorance, and not to his negligence. Now, with respect to his want of qualification, we cannot find one particle of evidence to warrant that assumption; indeed, it is in direct opposition to the testimony which was brought forward in the inquiry, which took place before the commer. It then appeared, that previously to his being taken into the employment of the propristors of the halfpenny boats, he had considerable experience in other eteam-boats; and that immediately before his engagement by Mr. Smith, he had worked for the Cirises steam-boat company, and that he bore an excellent character as a competent and caveful man. tors of the halfpenny boats, he had considerable experience in other steam-bot immediately before his engagement by Mr. Smith, he had worked for the C boat company, and that he bore an excellent character as a competent and e His wages, too, were 21. So, per week, and not 30a, an erroneously stated (no a mistake), by the talented advocate who so ably defended the prisoner; this fully equal to the wages usually paid to persons in that station, Mr. Smith hat the inquest that the men engaged "were superior men, paid from 15 to higher than any on the river." We are equally it a loss to discover what rewere to suppose that no proper instructions were given for his guidance; it was a total absence of any eridence on the subject. The proprietors or max company might have been examined on the point if it was hought destrable obt such was not the case. Before the coroner, it appeared that Mr. Smith daily habit of travelling by the boats, and personally superintending flow must be my presence to keep parties steadily to their duty." This fact was quite with the supposition, "that no proper instructions had been given; indeed, point in which any evidence whatevoer respecting "instructions" was before it was proved that Moecham, the superintending engineer and foreman to Mr. reprobated in the strongest manner the tying down of the valves, and that C interrogated on the subject by Mr. Smith, had positively denied that any sad caken place, indignantly asking if it was thought that "he was mad?" with niad Mr. Smith, who, to use his own hasquage, "never conceived that such a have been done," was perfectly satisfied. We are quite sware that these poin brought before the jury at the Central Criminal Court, and that they were burn their verdict solely on the evidence adduced before them, but they sho jury were in error in forming the conclusions at which they guessed, and also priety of casting a severe consure, and thereby inflicting a serious injury, u

Observable to be sald; "any tune parks who ware not there to define and the color of the product causand where the release that it was the duty of the talented advocate who appeared half of the prisoner to exconorate thin, if possible, by shifting the blame to others, to the seathlest to the defects of the machinery, or is any other cause for which his was not responsible, the gentlemen of the juny travelled out of their course to throw rited odium upon the provideors who had airway sustained a heavy loss. It was not responsible, the gentlemen of the juny travelled out of their course to throw rited odium upon the provideors who had airway sustained a heavy loss. It was that the learned Judge of do capree with them thorein, for, in passing the sentlement of the commonth's imprisonment, selfous hard labour, he told the prisoner "there is no don't that, although he had not wilduly intended to commit the mischief, at by the weplecies to twen of the steam on arriving at the end of his journey, he had it had earlied the mediancholy event either to ignorance or the want of proper instructions that the death of the young man. This, at least, was conclusive, that Lord Demman it accribe the melancholy event either to ignorance or the want of proper instructions was not working. Let it not for a moment be supposed that we are anxious on Mr. Smith, or the other properietors, from the consequences of any misconduct as fairly be charged against them. They have already sustained a heavy pecuniary here are civilly responsible for any damages that may have been incurred by any her are civilly responsible for any damages that may have been incurred by any human beings are at stake, or who would more stringently enforce the care in the management of a dangarous agent placed under the cuntrol of any or persons. Let those who neglect the duties they assume, be made in every resonance to the law; but there is a danger which must not be lost eight of in a retail country, and to which the casting of unmerted reproach on persons like

## IMPROVEMENTS IN THE MANUFACTURE OF GAS.

IMPROVEMENTS IN THE MANUFACTURE OF GAS.

Specification of patent granted to deorge Holworthy Palmer, of Westbourne Villas, Harrow-road, in the county of Middlesses, civil engineer, for an improved mode of producing infimmeable gases, of greater purity and higher illuminating power than those in use, and for the apparatus employed for the purpose.—Patent dated April 7, 1847.]

My investion relates, is the first place, to an improved mode of esting and arranging he retorts, in conjunction with what may be termed regenerators, or auxiliary generators, of decemposers, so as to ensure their being beated uniformly to the required temperature. The arrangement and construction of the flues, in which the retorts and regenerators as set, are anch as to ensure the former being raised to an uniform temperature, sufficient to produce the combination of gaseous carbon and hydrogen, but without being sinch excess as to occasion the precipitation of the carbon in a colid state.

By this mode of carbonising and generating gas, 4 striking and marked advantage is tained—viz.: not only an increase of volume, but also an increase in the illuminating over of the gas obtained from a given weight of coal; whereas, in all the modes which have witnessed, an increase of volume (beyond a given amount) from carbonising at

d—viz.: not only an increase of volume, but also an increase in the illuminating of the gas obtained from a given weight of eoal; whereas, in all the modes which witnessed, an increase of volume (beyond a given amount) from carbonising at uperatures, whether by using retorts alone, or by the addition of auxiliary tar and a decomposers, is invariably attended with a scarfice of illuminating power in equivalent to the increased volume of the gas obtained; this beneficial effect annufacture of gas I am enabled to obtain by adopting the peculiar arrangement ces and flues, hereinafter more particularly described, whether a greater of lesser of retorts and regenerators be set in one and the same furnace. And I would erre, that the relative cubic contents of the regenerators and the retorts, as well emperature of each, are extremely important in the economic productions of gas. In the cubic contents of the regenerator (one being set to each thould not exceed about two-thirds the cubic contents of the rotorts, of the tat the time of the retorts need not be so high as that usually practised, or need never what is commonly known as a bright cherry red-heat at day-light. The surface ag medium may be increased at pleasure by the introduction of metallic clippings, est-from plates, ranged within the regenerators.

Vention, secondly, relates to an improved mode, and to certain improvements of ratus, and its arrangements for abstracting the vapours of tar and naphtha, as well associate any and the common of the content of the restort of the retorts of an apparatus, into which the crude gas flows distinct research of the retorts of the rotor of an apparatus, into which the crude gas flows distinct or a superators, after having blown through the dip pipes in the hydraulic lates, the united influence of which will effect a rapid deposition of tar and other lates, the united influence of which will effect a rapid deposition of tar and other lates, the united influence of which will effect a rapid deposition of tar and other lates

decement, through the evenue gas in the manner directed, the announced gas becomes decisions, and reasoved, without subjecting the gas to an increased pressure during the case of the process of condensation is accomplished by the use of pure steam, har casceding the atmospheric pressure—whether generated at that clasticity, or by use of high steam, employed in an expanded state. The gas having been subjected this process—first described in the samoniaca filtering towers—is passed through a set of chambers, in each of which the volume of steam employed is about equal to the set of chambers, in each of which the volume of steam employed is about equal to the stome of the gas with which it is to be combined. The pure steam and crude gas will see from the first of the series of steam chambers, or towers, into its condensing chamber, where the steam will be converted into water, which, in its descent, will carry with it cast proportion of the remaining gaseous ammonia, and its various compounds; after chit permanent gases will flow from No. 1, condenser, inte No. 2, steam chamber, r. it will be again astarated with steam, and will, as in the former case, flow into its per refrigerator, to deposit the ateam charged with another portion of the products per effect of all pulled form, whilst the gas will pass into No. 3, chamber; when, as in two former cases, if will be finally attracted with steam, and passing from thence No. 3 condenser, will deposit the remaining ammonia and its compounds, together as portion of sulphurectical hydrogen—all of which liquid products, it is important better, should flow from the aforestid condensers as fast as they are deposited, into diable receiver, or receivers, each being sealed by an hydrastile joint, in order to prette gaseous vapours and gases again returning, and combining with the gas from they have been extracted. It will be obvious, that a series, consisting of a greater as number of steam chambers, may be employed; but, I believe, three will be found any inconventences. It w

sue the gas should be of too high an ultiminating power, or that the naphtha con-din the gas is of more commercial value whise extracted, than when left in the gas, mployed for the purpose of illumination, a given portion of such naphtha may be teld from the gas by the application of anismal or vegetable oils, or purified tar, as rent, applied by means of the apparatus already described as the filtering lowers— when temployed being pumped up to the vessel supplying the perforated plates, or bragmes, amil the denaphthalising process has been carried to the requisite extent, til the solvent employed has become asturated, when it must be removed and a final by formshed.

displaceages, and the encaptures of until the solvent employed has become astarated, when it must be removed and a feels supply farosheds.

It will be dowloos, that the apparatus hereinbefore referred to, and hereinafter more particularly described, as the sacchanical precipitator, may be employed with advantage for the separation will be facilitated, by subdivision and agrication of the particles, combined with reduction of temperature-liaving now described the nature of up invention, I will proceed to describe, in detail, the arrangements adopted for carrying it out.

The mechanical precipitators are furnished with perforated revolving fans, intended to agitate the gas in the chamber, in which it revolves. The shaft being stepped into the lower-chamber, is passed through an inclined plane, under which the gas blows through the ur, in its passage from the pipe. A chamber is connected with the aforeaid, containing a convoluted worm, or refrigerating pipe, intended to cool the gas, after it has escaped from the chamber—for which purpose, the pipe as kept cool, by a constant supply of water passing through the chamber, provided by the pipe, entering at the top of the chamber, and discharged through the pipe connected to the bottom. These pipes are the short and long legs of a spilon, the chamber being also a part of the said syphon. The top of the spine is farmiched with a water field, in order to fill the body of the syphon. The top of the spine is farmiched with a water field, in order to fill the body of the syphon, previous to its

of the was considered from the long leg of the symbor, which gives undo to a small water wheel, in connection with the bowl wheels, riggers, and band. This air-pump is employed, for the purpose of combring the small quantity of air, which would otherwise collect, and stop the action of the symbon. Or moletor may be given to the air-pump piston, and the shaff citiving the vertical revolving Ean, by a steam-engine, or any other revallance and the shaff citiving the vertical revolving Ean, by a steam-engine, or any other revallance of the control of the cont

office and Designs Registry, 210, Strand, Dec. 3.

## RAILWAY LEGISLATION.

The Government measure to give further time for making certain railways, brought into the House of Commons on Friday night, was on Monday printed. There are 10 provisions in the bill, the preamble of which states that divers Acts of Parliament have been passed for making railways, and is such acts respectively cortain periods of time are Ilmited, within which only the powers thereby granted, whether for making the railways or for the compulsory purchase of the lands therein referred i.e., can be lawfally exercised; and whereas it is expedient that in certain cases from the granted for the purposes mentioned, it is now proposed to enact that companies may apply to the commissioners of railways for an extension of time, at any time within two calendar months after the passing of this bill. The commissioners may direct advertisements of the application, "and every such notice shall see forth within what time, and in what manner, any person who thinks himself aggrieved by such proposed extension of time, and who desires to object thereto, may bring such objections before the said commissioners." By the third clause it is proposed to empower the railway commissioners to extend, if they think fit, by warrant under their seal, and signed by two or more of them, the period allowed for the completion of a railway or work, or for the compaisory parchase of lands for that purpose, for such further time as the said commissioners think fit, "not exceeding the periods as allowed by such act or acts respectively, and they may so extend such periods required for the same, or as to so much of such railway or the works, or the lands connected threwith, as shall be specified for that purpose in such warrant." The Acts of Parliament in force are to be constructed with reference to the works, or the lands connected threwith, as shall be specified for that purpose in such warrant.

For a such as the such and the such as a such as a such as the construction of such arithment, is a such as a suc The Government measure to give further time for making certain railways, brought into the House of Commons on Friday night, was on Monday printed. There are 10 pro-

THE SUBMERGED PROPELIER—(From a Correspondent).—A brief description has already been given of the new invention applicable to steam navigation called the submerged propeller. As the name indicates, the paddle wheels instead of acting on and near the surface of the water, as is usual in the common steam-boats, the action in the new discovery is entirely under water, and thus preventing the slightest surface swell, so frequently attended with fital consequences to smaller craft. In order to afford a number of mantical and scientific guitformen another opportunity of tasting the amparently valuable character of the discovery, Mr. Simpson. occasion. The day was exceedingly fine for the season of the year, and the vessel glided like a swan down the stream with searcely a ripple on its surface, at the rate of 12 knote an hour. As the subject is one of great importance at the present time, the following description, though somewhat technical, may still be interesting. On each of the vessel's side, immediately above its keel, is placed a small wheel, entirely under water, and protrading about 12 in. Each wheel is contained in a case so peculiarly formed with regard to their risspective centres, as to reverse its office so soon as the engines are backed. The combined action of the wheels and their cases, perfectly accomplishes the great requisitions for propulsion in the water—namely, the supply, the delivery, and the direction. The direct operation of the submerged propeller consists in invisibly throwing out a column of water in a parallel line with the vessel's motion. This column being ejected somewhat beyond the broken water at the side of the vessel, acts upon the denser mass of water, and thus drives forward the boat. Indeed, the motion may be compared to that made by the wings of a flying bird, beating back a column of air on each isde. As no paddle-boxes are required when the propeller is used, the boat fitted with it has a lighter and more elegant appearance than thut of the present steam-boats in common use, and necessarily takes up less sea room, never ranning the risk of having her boxes smashed, or maying both box and wheel form off. Another advantage is to be found in the circumstance that the propeller works without the elightest vibration. The Albion, on Monday, proceeded down the river as far as Erith, in a sylendid namner, surprising all on board of her with her swift, steady, and noiseless motions. The little boat specifly left behind many other vessels bound on the same course as herself. Having grained Erith having performed the Journey in something like 24 hours. The Albion has not been constructed with a view to the statisment

# Mining Correspondence.

ENGLISH MINES.

BARRISTOWN.—In the 16 fm. level end west, the lode is very promising—worth about 100 per fm.; the stopes in the back belind this end, are worth from 80 to 100 per fm.; the stopes in the back belind this end, are worth from 80 to 100 per fm.; the stopes in the bottom of the lovel are worth about 80 per fm. In the 28 fm. level end west, we have discovered a part of the lode, supposed to be thrown down by a slide, about 10 in, wide, with a good mixture of ore through it; this is just under Deyle's stopes, which are at gressmit poor. The stopes in the back of the 18 fm. level, over this, for a few fms. In longth, are worth about 20 per fm. In the 12 fm. level end west, we are still without the lode; the stopes in the back of this level are worth about 50 per fm.; the stopes on the middle lode, in the bottom of this level, are worth about 50 per fm.; the stopes on the middle lode, in the bottom of this level, are worth about 50 per fm.; the stopes on the middle lode, in the bottom of this level, as at of the sump winze, we are driving north through the cross-course; the stopes in the back of this level are still worth 800, per fm.; in this level west, on the south lode, the lode is a still poor. In the 70 fm. level east, in Hooper's winze, in this level; sinking on the north lode, the lode is a still poor. In the 70 fm. level east, the lode is 18 in wide, producing soon saving work; in Harvey's winze, in this level, the lode is 2 ft. wide, producing good stones of ore; we are expecting to cut the south lode shortly, in the 70 fm. level corse-cut south. The lode in the 26 fm. level, east of the south ends shortly, in the 70 fm. level, corse-cut south. The lode in the 26 fm. level, east of the south ends shortly, in the 70 fm. level, corse-cut south. The lode in the 26 fm. level, east of the south ends and pled October ores, computed 123 tons (21 cvt.s.).—Nov. 30.

CALLINGTON.—The lode in the 23 fm. level, we have driven rather more than 8 fms. since we can be lovel, before the present year expires. In

dications.—Dec. 2.

COATLITHE HILLS.—The men have been employed during this week, in driving from the top of the rise towards the level, west from A shaft, the level having been so wet that nothing could be done in it; the air in the rise has been very foul, and our progress has been slower than usual, but I expect to cut a communication sometime next week.—November 27.

having been so wet that nothing could be done in it; it as in the rise has been very foul, and our progress has been alower than usual, but I expect to cut a communication sometime next week.—November 27.

COMBLAWN.—The men are progressing with the engine-shaft in a very satisfactory manner, which is now sunk 5 fms. 3 ft. below the 10 fm. level, being 15 fms. 3 ft. from surface, and the ground is still favourable for sinking, with branches containing silver-lead ore and iron pyrites, dropping towards the lode in a north-westerly direction. A few days since we intersected a lode in the shaft, 1 ft. wide, containing aliver-lead ore of an excellent quality; this lode was descovered at the surface, in bringing up a lobby level to the main lode, but was at that time taken little or no notice of, it being only 3 in. wide, and unproductive. The main lode a few fathoms further north, and parallel with this, was found in the bottom of the adit level to be 14 ft. wide, carrying a beautiful flookan on the north wall, the matrix being prian and friable spar, with silver-lead ore, and mundie disseminated throughout; from the improvement this lode (No. 2) has made since it was seen in the lobby level, and the favourable indication that presents itself in the shaft, we have every reason to expect that the main lode will be found productive in the 20 fm. level. In consequence of an increase of water below the 10 fm. level, it was thought prudent to fix a larger lift of pumps than we formerly had; our first lift is an 8-inch working barrel, with 9-inch pumps; the sinking lift being of the same size—so that now we can keep the water with perfect ease, comparatively speaking; this enables the shaftmen to make rapid progress.—Dec. 2.

DEAN PRIOR AND BUCKFASTLEIGH.—We have dropt down, in the engine-shaft, the windbore, clack, door-piece, and working-barrel, below the bottom level, and the water is in fork within 8 ft. of the bottom of the shaft, so as to drop down the lift of pumps, in order to clear up to the bottom of the shaft,

DEVON AND COURTENAY CONSOLS.—In our deep adit level, the lode at present is composed principally of spar, containing mundie, and spots of lead and copper ore. The ground in the engine-shaft is more favourable than at last report, there being not an much spar mixed with the killas. The pitches on the north lode are still producing some good work, and continue to look well.—Nov. 30.

at last report, there being not so muon spar mixed with the activation priches on the north tode are still producing some good work, and continue to look well.—Nov. 80.

EAST CROWNDALE MINE.—Having inspected the above-named mine. I beg to ofer a few remarks relative to the past proceedings, present prospects, and the mode in which I should recommend the future prosecution, in the most judicious and systematic manner, and from which I think beneficial results are likely to accrue. Taking a minute survey of the work done at the surface at Rix Hill, in costeaning, &c., I think sufficient ground has been opened, to show clearly that there are several lodes pear each other, although in a confused state, in consequence of a convulsion of nature in that locality; however, where the ground is more compact, as is the case at the summit, and about the centre of the sett, a more promising and regular lode is rarely to be seen, possessing every characteristic of minerals, with very corresponding walls, inclining south on an angle of 24 degrees, which I conceive to be an underlay much the same as many other lodes in the neighbourhood, that have been very productive of minerals; therefore, the proper step has been taken to prove whether the lodes are continuous, and which lode it will be most advisable to prosecute more vigorously, as a main working, to command all. An aditivel has been driven in a south-west direction, about 60 fines, where it intersected the north lode, 12 fins. deep; on interaction, it is much larger than when opened on at surface, as it is a little more perpendicular than before alluded to. I consider it a good indication, and it is master of the strata it passes through; the component parts are peach, quartz, and mundic, interspersed with very good tin ore, from 3 to 4 ft. wide. Since cut, the adit has been continued some 10 or 12 fins. west on its course—still presenting similar appearances, and likely to do so at that level, especially from the improved state in the shaft sinking under the adit (about locality), dividing the heads, or joints, in the lode, commonly called "slides," or "breast heads." With such appearances, I should recommend the sinking of the shart on the lote 10 or 12 finds below the adit level, which, I believe, will be practicable, without the aid of machinery; then you can extend the level west, to meet any shart you may sink in the centre of the sett; if will prove the bode, and serve for ventilation, as well as for extracting the ore, as there is very little doubt of its being productive of large quantities, judging from the indications already seen, and from the tin ore now at surface; and really, there is every protable expectation of improvement as you progress. I should also continue the dross-cut south, till you cut the south lede, which is, I think, 6 fins, south of the other, that being about the distance in every place. I have seen them opened on; then you can determine which lode it will be prudent to drive the adit level on, and cross-cut to the other, as circumstances or opinion may dictate, not believing for a moment it would be prudest to drive the two levels parallel at that shallow depth. It is also necessary to prepare some sort of machinery for cleaning the tin ore already broken, and still breaking; either erect a wheel, and attach stamps, and pump water with the steam-engine to supply it, or otherwise erect a small engine for the purpose of stamping, and drawing the water to condense with, and dressing the tin on the spot, to avoid the great expense of carriage work from the shaft to where a wheel must be placed, so as to allow your present engine to be brought to act. An engine of 24-inch cylinder will be the most powerful and benefit auxiliary in my opinion, although it will cost more in the first outhay; but there will be many expenses in getting up wheel, pumps, rods, &c., which

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must be considered in the outlay of a small steam-engine. However, these are hinfs I merely throw out for your consideration, as circumstances, and the 9 inion of your own agent (to be consulted with), must decide which would be most smisble to apply—your agent being quite capable of forming a correct idea, having an opportunity, as he has had, to calculate for your interests which course it would be most prudent for you to adopt. And further allow me to add, every thing that has been done, at surface and underground, is judiciously and economically laid out, not only for the present, but for the future presention of the mine, in a systematical and miner-like manner. At the steam-engine shaft, I was not exactly satisfied on the day of inspection (Nov. 11), that the lode in the 47 fm. level was cut through, as killsa might divide it, or the orey part inclining fast east; however, these are matters soon to be proved, therefore I should recommend the extension east, more particularly on its course, to ascertain the result, as I have strong incentives of its being productive, in consequence of its regularity when it passed through the shaft, and the production of such large rocks of copper ore, of excellent, quality, very similar to what I have seen and broken in the West Crowndale lode, at Crebor, Liscombe, and other mines west of East Crowndale Mine; which mines, collectively, have produced many hundred thousand pounds worth of copper ore in a short distance, leaving immanse profits to the adventurers. As there is an alteration in the ground under the lode alluded to in the 47 fm. level, should enroughly recommend you to sink the steam-engine shaft 10 fathoms despet, before you cross, cut south to the other lode, as the sinking the shaft will not occupy more time than diving the oreas-cut in that level, and you would considerably shorten it in the 57 or 60, the killab ching of a softer nature, so that the expense, in my opinion, would not be more, only in pumps and available property, and would give it a more sat

at that moment, it was either a part of the north lode atrayed abuth, or the north part of the south lode being flat to where I have seen it before, although its properties are just the same, and good stones of the threeghout; therefore Captain Paull and myself agreed to continue further south, to prove it properties the part of the same level east is poor, but getting into a more settled state, and is about 2 ft. wide, composed of capel, agar, killas, intermixed with spar; the lode in the same level east is poor, but getting more regular, I hope we shall soon meet with a bunch of ore. The lode in the shaft sinking below the adit level, on the north lode, at Rix Hill, is still rather disordered, with floors of killas, and is about 5 ft. wide, composed of fellas, peach, mundic, and tin. The ground in the cross-cut driving south, in the adit level, Rix Hill, continues favourable for driving, the ground is killas, intermixed with floors of spar. The lode in the adit level west, at Rix Hill, is very much improved in appearance since my last report; there has been a great quantity of mundic in the lode, which is wearing out, and a good lode of tin is no doubt near; we have broken some excellent work to-day; the lode is upwards of 2 ft. wide, composed of peach, capel, spar, mundic, and tin.—Nov. 27.

GREAT MICHELL CONSOLS.—The lode is the sump winze continues 5 ft. wide, composed of spar, mundic, peach, and or, producing some axing work. In the 25 fathom level, west of the sump winze, the part of the lode being carried as 3½ ft wide, containing mundic and spar, with groy, black, and yellow ore—opening tribut ground. The pared of or to be ampled next Monday week will be about 50 tons.—Nov. 30.

GREAT WHEAL ROBERT.—We have been sent of the delay. Those difficulties are got over, and the mine is in a good way of working the form of the ores disponed as from the cleavage, and more frequently we find copper dip east. Here I find the dip of the ores is west, and comes to a pomt going cast. We shall now recommence driving t

no in back of the 30, at 47, per ton; and one in bottom of ditto, at 32, per ton.

LAMHEROOE WHEAL MARIA.—I am happy to tell you that we have
t last cut the K lode; we have gone through three branches, all underlaying
sto the K; you will be glad to hear that it is a fine champion looking lode,
and, as far as we have been able to see, it is orey; but, until we have got the
rater in fork, we cannot see enough of it to speak positively as to its value,
When the lode was cut, the water completely drowned the men—so that they
were obliged to run. One great thing, as indicating the lodes containing ore
that the water is quite warm. Capt. Tabb will write in a few days.—Dec. I

is, that the water is quite warm. Capt. Tabb will write in a few days.—Dec. 1
LOSTWITHIEL CONSOLS.—The shaft is sunk 22 fms.; the ground still hard, and set at 20t per fm. We have fixed a standing lift, and constructed a dam 14 fms. below the adit, and hope now to prosecute the sinking without further hindrance. We have also cut a plat, by which the cost of hauling is reduced. The level on the caunter is extended 63 fms.—no change in the lode of late. Capt. Eustace has opened the lode in the bottom of the level, with a view to ascertain whether it would be practicable to sink a winze on the lode—it is very watery; the vein in the centre of the lode, going down, is about 7 in. wide, gossan and ore. Could it be sunk upon 10 fms., it would probably pay out, and perhaps make a profit at that depth.—Nov. 24.

MENDIP HILLS.—In the 28 fm. lovel, south of the shaft, the lode is not

pay cost, and perhaps make a profit at that depth.—Nov. 24.

MENDIP HILLS.—In the 38 fm. level, south of the shaft, the lode is not quite so large as when last reported on, being divided in two parts—the main branch being about 1 ft. 6 in. wide, composed of flookan and spar, with a little water issuing from different parts of it; in the north of the shaft, in the same level, we are at present extending the end on the foot wall part of the lode, which is chiefly composed of white flookan and soft spar—ground easy for driving, price 30s. per fm.; in the branch, opening across the upper part of the slag ground, we have, during the past week, been engaged removing the top rabbish from off a large bed of slags, of coarse quality. The masons are employed about the necessary brickwork, for conveying the wind from the fan

top rubbish from off a large bed of slags, of coarse quality. The masons are employed about the necessary brickwork, for conveying the wind from the fan to the different furnaces, and building the deposit chambers. We are also pressing forward, as fast as possible, with the tram-road.—Nov. 29.

SOUTH WHEAL TRELAWNEY.—The engine-shaft is sunk 19 fms. below the adit level, the ground in which is still a favourable light blue killas strata; the former contract for sinking being now completed, we have this day set the shaftmen a new contract, to continue to sink the engine-shaft, and make it all complete, by dividing and casing it to the 30 fm. level (below adit), at 15t, per fm; the quantity of water we have in the shaft is just as it has been for several weeks past. We are also engaged in fixing a balance-bob at surface, and the shaftmen in fixing lift, &c., which will occupy a couple of days in next week to accomplish; after which, we shall resume the sinking with nine men, as heretefore, from Monday morning until Saturday night late.—Nov. 27.

TAMAR SILVER-LEAD.—In the engine-shaft the lode is 18 inches wide-saving work. In the 160 end, south of the shaft, the lode is 2 ft, wide, composed of horn spar and ore, but not rich for the latter; in the same level north no lode has been broken since last report. In the 136 end south the lode is 9 ft, wide, composed of can and ore, coarse in quality. In the 125 end the lode is 1 ft, wide, chiefly composed

7

of can, with branches of silver-ised ors. In the 60 and the lode is poor at present. Our tributers are working with good spirit, and most of than are making fair wages. Nov. 32.

TRELEIGH CONSOLS.—Christor's shaft, below the 110 fm. level, sinking in the country; in the same level, east of this shaft, the lode is 18 in. wide—worth 55 per fm.; this is driven on the cross-course; I fm. 5 ft. driven on the lode is an essetry direction; the same fevel west is suspended; the branch in this end is small at present, and without mineral. Garden's shaft, below the 100 ainting in the country—the ground hard. In the rise above the 100 east, the lode is about 2 ft. wide, but very little mineral. The driving in the 100 fm. level is suspended, mid the rise is beled; in the same level, wast of ditto, we shall drive muth; the lode is very large in this end, and we are desirous to see the south wall of it; we have occasional stones of ore. In the 90, west of ditto, the lode is 20 ft. wide,—worth about 7t, per fm.; in the winze below this level east, the lode is 24 ft. wide, producing stones of ore only. In the 60, west of ditto, the lode is 26 ft. wide, with stones of ore. In the 70, west of ditto, the lode is 26 ft. wide, with stones of ore. In the 70, west of ditto, the lode is 26 ft. wide, with stones of ore. In the 70, west of ditto, the lode is 10 ft. wide, without sinkersl; we have sank and holed in the winze below this level. In the winze below this level. In the winze helow this level, in the winze helow this level. In the winze helow the 10 fm. level, the lode is 12 ft. wide, with a promising appearance, with mundic, spar, and stones of are. In Lacket's shaft, below adit—explain's price, 55 per fm., the lode is 27 ft. wide, with a promising appearance, with mundic, spar, and stones of are. In Lacket's shaft, below adit—explain's price, 55 per fm., the lode is 27 ft. wide, with 10 per fm. level, west of Garden's shaft, and will be found a useful shaft, as it will vaniliate the western levels, and take off great expense

impress on the minds of the gentlemen of the committee, to have the shaft sunk as deep as the 30 fm. level, which will take us four months—in the mean time, to keep on the cross-cut in the 20, to intersect the Ford lode.—Dec. I.

WHEAL CURTIS,—To-day being the monthly setting, I beg leave to hand you a report of the same. Fegan's engine-shaft, sinking below the 20 fm. level, is in harder ground than formerly; but, from the general nature of the ground in this quarter, we may reasonably expect that it will not long continue so; set 3 fms, at 181, per fms. Evans's shaft is 12 fms, below surface; we hope to hole the same to adit in the first week in December. Insmediately after, we shall sink on the Charlotte lode, below adit, where there is every prospect of breaking copper ore, and confidently hope for a productive lode in this part of the mine, judging from present appearances. John's shaft, on the Curtis lode, is set to clear up to bottom, which is effectually drained. In sinking this shaft by the former company, they were driven away by the water, leaving a good lode for copper ore, considering its depth from adit—about 10 r fms. The 30 fm. level, west of Crate's flat-rod shaft, is being cleared; and in a few days we intend to commence driving this level west, towards Fegan's ongine-shaft. The 20 fm. level, east of Teague's shaft, is cleared to end, in which there is a part of the east and west lode intersected; but we consider the principal part is still to cut; and as no lode has been taken down for the just a first shaft will ultimately prove a productive and lasting mine. For the present, we do not think it advasable to do anything on the lead lode, but will shortly turn our attention towards it.—Nov. 27.——The 30 fm. level, west of Teague's fms. to drive to John's shaft, which we intend to set to-morrow, when Capt. Richards will attend for that purpose. The water in Fegan's shaft is increased, but we are preparing a lift of small pumps, to drain the same by the power of the engine.—Dec. 1.

WHEAL TRELAWNE

BIRCH TORR MINING COMPANY.

At a meeting of shareholders, held at the offices, on Wednesday, the 24th November,—John Bayin, Eq., in the chair,—the accounts to the end of October were examined and passed, showing balance of assets over labilities 541, to which may be added, working materials on the mine, 9001.; axialable surface work, leats, roads, floors, buildings, &c., 10001.; adit levels east, anticipated profits, 6001.; Vittler adit, available work, 28001.—together 55541.—It was then resolved, that the workings at the bottom of the mine be for the present suspended; that the number of shares be increased to 1244, to be held rateably by the adventurers; that a call of 30s. per share, on the number of shares, be made payable by three monthly instalments. Rules for the future regulation of the nime were presented, when it was further resolved, that the foregoing resolutions be printed and circulated among the shareholders, and that the meeting be adjourned to the lat of December. The following report from Capt. Edwards was read to the meeting:—"The 74 fm. level west having passed through a small shoot of tin, and the end having again become poor, and as the winter is now setting in, I propose the suspension of the bottom part of the mine, and to confine our operations to the ground above the adit level in the eastern hill. In the deep adit, the lode is worth 81, per fathom, and in the shallow adit, the lode is worth 77, per fathom, and as the latter level has passed through ground of about the same quality for about 40 fms. in length, and as it is still laying open backs about 12 fms. high, and as the lill rises before us about one in four, we may fairly calculate on having a profitable piece of ground befure us here. I think the ground already laid open between the deep and shallow levels, likely to give a profit of 6001. Although I have a very high opinion of the Vitifer lode, I should not recomment the resuming it before the spring of the next year; but I should not recomment the resuming it before the spring of the next year; but I s of the other parts of the mine. The call of 12 los. per share on now made, will put the finances of the company in a good position

## X PLYMOUTH WHEAL YEOLAND MINING COMPANY.

At a two-monthly meeting of adventurers, held on the 25th November, the accounts were examined and passed, showing balance due the 23d September, 412. 18s. 1d.—Cost for September and October, 347. 17s. 2d.—leaving balance in favour of the mine of 66. 0s. 1td. The following report from Captain Edwards was read:—"Since our lest two-monthly meeting, the north adult has been driven about 6 fathoms, and has produced some good stones of tin. The shaft on the south adit has been communicated, and the driving resumed. The sinking of the engine-shaft on the south lode has been auspended, in consequence of the great influx of water, and the men have been removed to cut the bob-pit, &cc. In doing this latter work, we have discovered a slide, withan ontherly dip of about one foot in a fathom; this slide was seen in sinking the shaft, but it was so indistinctly defined here, that it was thought to be nothing more than a disordered apot in the lode; it is very clearly traceable now, both in the hob-pit, and in a piece which is opened five fathoms long to the west of the bob-pit; this was the cause of our not being able to trace the lode immediately westward from the engine-shaft, although it was discovered at about

the slide crops out to the aurface weetward, the back is cut off; and our a pits not having been put deep enough to pass through the slide, account our not having before been able to cut the load. We have now a piece of laid open 16 fathoms long, the appearance of which, bath in the sada and tom, is highly antisfactory. We have sold two tons of tin, at 447. 7a 64 ton; and, I am informed, the metal is the best quality in the county. We now preparing another parcel of tin for sale, and hope to have unwards of tons ready in a month from the date of the last and (22d Nov.) We ha large quantity of tinstuff on the surface, waiting for the new stamps, we upwards of 890%. Mr. Mare has nearly completed the angine fit for deligand I expect the engine-house will be covered in by Tuesday next; an Monday, the 6th December, we shall be in order to begin fixing the eng

TREVEAN MINING COMPANY.

A meeting of adventurers was held at the offices, Great Winchester-effect, on Wednesday, the 18th inst.

Johns Mollert, Egq., in the chair.

A statement of accounts was presented, showing amount received by calls, 288L; by sales of tin in Angust, 120L 1s.; in Sept., 99. 19s. 56t.—500L 0s. 5d.—By balance due, 21st Sept., 172L 5s. 6d.; by August cost, 184L 31d.—The accounts were passed, and a call of 1L per share made.—Mr. R. R. Michell having tendered his resignation as purser of the mine, it was resolved, that Capt. H. Hensiey be the future purser, at a salary of 5L 5s. per month.

The report of Capt. Thomas Richards, who had been requested to inspect the mine, having been read, and deemed satisfactory, Capt. Hensley's, to the 29th November, was read, showing the mine to be in an improving state for tin, the quality being better, and the appearances generally throughout the mine were encouraging. The operations in progress for developing the silver lode were progresing, and the length of the lode, as described by Mr. Cox, being 34 fathoms to the east, and 5 fathoms to the west opened upon, it was deemed advisable to suspend its further driving, till such time as the buildings were ready to receive the gossan, which continues in appearance and breadth, as well as quality, quite as good as at first, with overy prospect of a continuance; and it is fully expected a quantity will be ready for sale in a short time. A gossan lode, 8 feet wide, was cut in Cox's shaft on the 29th.

A gossan lode, 5 feet wide, was cut in Cox's snart on the 25th.

TROWAN CONSOLS MINE.

At a quarterly meeting of adventurers, held at the mine, on the 23d Nov.—

N. Harwey, Esq., in the chair—the accounts were examined and passed, from which it appeared, that the costs and merchants' bills for July, August, and Sept, were 287, 9s. 11d.; tio sold, 423f. 12s. 04d.: leaving balance in favour of the adventurers of 186f. 2s. 2d. It was resolved, that the purser be authorised to employ a solicitor, to write to adventurers in arrear of calls, made in Nov., 1846, and Feb., 1847, and, if necessary, bring them into the Stannary Court; and that the other adventurers, who have not paid the last two calls, be requested to pay the same to the purser-immediately—that a copy of these resolutions be sent to Mr. G. B. Boscawen, and that he be kindly requested to call upon the adventurers in London, for the payment of their calls. The following report, from Capt. Periberthy, was read to the meeting:—The mine is, as yet, quite in infancy, being-only 25 fins. below the surface. You will perceive, by Mr. Kenrek's statement of the account, what has been the pecuniary result of the last three months. In the prosent three months. I have much pleasure in stating that, during my 86 years' experience in mining, I have not seen a lode so valuable at the above depth."

#### \* WHEAL CONCORD MINING COMPANY.

An adjourned special general meeting of shareholders was held at the offices, 4, King-street, Chaapside, on Wednesday, the 1st inst.

WILLIAM MORISON, Esq., in the chair.

The minutes of the preceding meeting and adjournment having been read, the CHAIRMAN called upon Mr. English, as his co-auditor appointed to investigate the accounts had been minutely examined, with the view of submitting to the meeting a clear statement of the present position of the company, and doubted not but that the result of the investigation, and labours on the part of the auditors, would give satisfaction.

Mr. English proceeded to read the accounts as made up, observing, that the worthy chairman and himself had devoted some 12 or 14 hours to their accomination, and having been assisted in the duties devolving on them by the services of the purser and secretary, both of which gentlemen had readily afforded every assistance in their power. In proceeding to read the balance-sheet, as drawn up, embracing, as he believed, all claims or liabilities of the company, while the assets were comprehended in a comparatively limited space, as well as amount, he should feel it to be his duty to advert to one or two items, es passant; and accordingly proceeded to read the accounts as made up, of which the following will be found to be a fair abstract, without entering into the details:

١.	CHIS 5481 1 1	0	(20 to 1)		
	Sales of ore 1009 19 11	-	£5491	1	0
	Arrears of monthly cost		989	11	9
ı	Due to P. Davey, for advances		263	9	11
	J. Pickering, ditto		100	0	0
	" G. W. Snell, Esq., purser		. 33	. 5	11
	J. Crofts, Esq., secretary	20	1.	9	
	, W. Weekes (damage to land)		55	0	0
	,, G. W. Snell, as solicitor, assumed, but not admitted		126	15	6
	Gill and Rundle, assumed, but not admitted in part		605	.3	7
	" Skinner and Son, assumed, but not admitted	19.1	68	10	11
	from the first of the large sharehold of the character of the first of the character of the first of the firs		-	-	-
	A Line American are applied account of the institution of applied to the first of		E7684	7	5
	Cost incurred, as per last account		3631		AGE!

Cost incurred, as per last account £5566	. 0	£7684	Q.
Cost, April to July, inclusive	12		
London expenses, and sundries	0	3	
Arrears of calls 1023	0	0	
Balance at bankers' 2	1	1	
Balance 370	13	3-£7684	. 4
WATER A STATE OF THE STATE OF T			

It would thus appear that the debts due by the company amount to 23001, abouts—against which are to be placed arrears of calls due. As it is, however, templated that more than two-fifths, or 4001, will be received, it would leave lance, or amount due, of 18001, to which some trifling amounts may be added however, only right to observe that, in this estimate, certain "nounts, which are (say, 2601, to 3001.), are included—and hence such amount should be deducted making the virtual balance due by the company to omenut to (say) 9000. It is tright to direct attention to the monthly cost-sheet for April, amounting to 370 lance, or amount due, of 1800L, to which some trifling amounts may be added. It is, however, only right to observe that, is this estimate, certain emounts, which are disputed (ear, 250L, to 250L), are included—and hence such amounts should be deducted; thus, making the virtual balance due by the company to amount to (eay) 2000. He decaded it has, making the virtual balance due by the company to amount to (eay) 2000. He decaded it right to direct attention to the monthly cost-sheet for April, amounting to 370L, which is was somewhat curious did not appear to be in the possession of the secretary, or the committee, although the cost-sheet for the subsequent month (May) was subsulted—being endorsed as for April month, and as such entered in the ledger. It was somewhat strange, he must adunt, that such should have arisen, more especially as the wanting amount—in part payment of which, 200L had been remitted—included a charge of 100L for sorvices rendered in the proposed disposal of the mine, which, in the course of the proceedings, was stated to have been effected at the sum of 1220L, although, from misamanagement, in one quarter or other, only 170L was realised—three-fourths of which amount, or about 140L, being sacrificed for law charges. He considered it right to direct attention to this particular item.—A discussion subsequently ensued, which each of the domain made, and which was agreed upon.

In the course of the proceedings, Mr. J. Werkers, as representing the lord or proprietor, stated, that he had a claim for surface damage amounting to 200L, which was not included in the accounts. He wished this to be clearly understood.—In the end, hewever, it was arranged, on the proposition of Mr. English, that the sum fixed should be 50L, which was carried unantmously—such amount appearing in the accounts—of which we have furnished an abstract.

Mr. Peters Daver, in addressing the meeting, wished it to be understood that, although norminated, in his absence, at the meeting held last week, as a member of a committee th

longer occasion for his services as secretary; he had up to max permay, he formed the duties devolving on him in a manner which had given general He submitted, that the papers and accounts of the company should be photor's linate, and then that he entight no longer he responsible, and, indewash his hands of the concern.—A conversation areas, in the course of whi was reminded that he had heretefore held the responsible and paid office and suggesting that it was, at least, in bud tests to retire at the moment of was a first, in the concern.—Mr. Crofts, in the end, assented to the business of the company more especially as he held more than one-eighth hence.

Mr. Crofts, in the end, assented to the business of the company be at the officer, and Mr. George Szeta, as pursor, expressed his readiness assistance in his power, without putting forward any claim for the company solutions. It was suggested, that Messrs, Keddel, Baker, and Grant, should be requised the solutions of the company—resolutions to which effect were carried.

Mr. Ewollists considered that, unless some stringest measures be adopted very of the arrears of calls, as also safercing the payment of such money due, certain of the proprietors would be sacrified by the claim, institute would be, doubtless, onferced by the crofitors of the company against certain the dufathers should be made; and, in case of non payment, that the dufathers should be given over to the creditors of the company.

Mr. P. DAYEY fully assented to fleeviews expressed by the last speaker, in that the adventurers generally, if advised of the Crumataness in which was placed, would at once come forward, and pay their calls. He saintities the bounden duty of "one and all," but he was not an advocate for occreive the bounden duty of "one and all," but he was not an advocate for occreive the

#### WEST WHEAL MARIA MINING COMPANY.

WEST WHEAL MARIA MINING COMPANY.

A meeting of adventurers was held at the Bedford Hotel, Tavistock, on Saturday, the 27th Nev.—Present:—Messra S. Trehane, J. H. Hitchens, John Bayley, Thomas Davis, and John Browne, Esq., of London. By proxy.—Messra Abbott and Son, Watson and Cuell, the Hon. W. Booth Groy, Sie H. Parker, Bart, O. H. Smith, Esq., C. Bailey, Esq., John Procter, Esq., J. F. Van Zeller, Esq., James Andrew, Esq., Jose Procter, Esq., and Messra G. W. and F. Harrison.

JOHN BAYLEY, Esq., in the chair.

The circular convening the meeting having been read, and the minutes of the last meeting confirmed, Mr. BAILEY stated, that an arrangement had been made with Captain J. Richards, for his giving immediate possession of Capel Tor Cottage, his arrears of ront being given up, on his leaving all fatures, except the kitchen stove.—Mr. Bnower (of London) made a statement of the views of the London shareholders, that they had paid up their arrears to the views of the London shareholders, that they had paid up their arrears to made worthy of it; that they would undertake the management of the mine in London, and carry it on with the affectest economy; enforce the payment of calls from such as could pay, and sariest the shares of those who could not; and discharge the liabilities now pressing on the mine. Upon which he proposed the following resolutions:—

Resolved.—"That the operations of the mine be resumed."—"That all the existing rules and regulations which such rules and regulations imposed upon the shareholders, and the right of enforcing the same, in respect of all the affairs and transactions of the company, up to this date; and that, in future, the mine be conducted purely on the Cost-book System."—"That the future management of the mine, and its affairs, be devolved on Mesars. Charles Bailey, John Browne, and J. Y. Watson, subject only to be disturbed by the votes of meetings of shareholders, which shall be convened at such times and places, as the managers, from time to time, appoint, provided a meetin

CHARLESTOWN UNITED MINES.—At a meeting of adventurers, the accounts error examined and passed; from which it appeared, that the cost for two conths was 21644. 11s. 1d.; dues, 1051. 12s. 5d.—together, 22701. 2s. 6d.—By m sold, 18181. 16s. 7d.—leaving balance against the mine of 4511. 6s. 11d., thich, added to deficiency at last account, leaves 14201. 3s. 1d. against the adventurers. A call of 201 per share was then made, payable within a fortnight.

venturers. A call of 201. per share was then made, payable within a fortnight.

Great Callestock Moore,—A meeting of adventurers was held at the
Royal Hotel, Truro, on Tuesday last, when the accounts for August, September,
and October were allowed, as follows, and the balance ordered to be divided
and collected forthwith:—To balance at last account, 2551. 4s. 5d.; costs and
merchants' bills, 8851. 14s. 7d.—11401. 19s.—By received calls and arrears,
5041; cres sold (less dues), 2891. 12s. 9d.—7871. 12s. 9d.—leaves balance due
purser, 5532. 6s. 6d. For the further working of the mine, a call of 12s. 4d. per
281st share has been made, that being the number of shares into which the
mine is now divided, in consequence of relinquishments.

Takthellar.—At a meeting of adventurers, beld at Tresavean accounthouse, on Tuesday last, the accounts, as follows, for September and October
were allowed:—By balance at last account, 4841. 19s. 3d.; ores sold (less dues),
5301. 1s. 1d.—10151. 0s. 4d.—To costs and merchants' bills, 4141. 4s. 10d.—
leaves balance in favour of the adventurers, 6001. 15s. 6d.

Tresavean.—A meeting of adventurers was held on the mine on Tuesday

leaves balance in favour of the adventurers, 600£. 15a. 6d.

TREBAVEAN.—A meeting of adventurers was held on the mine on Tuesday last, when the following accounts for September and October were submitted and passed, and a dividend of 8£. per share, declared:—Balance at end of Aug., 1154£. 8a. 2d.; ores sold (less dues), 3477£. 13a. 1d.; sundries, 217£. 12a. 7d.—4849£. 15a. 10d.—To coats and merchants' bills, 3508£. 19b. 9d.: dividend of 8£. per share, 768£.—4276£. 19a. 9d.—leaves balance in favour of mine, 572£. 14a. 1d.

Werr Wheal Basset.—At a uneting of adventurers, held on Friday, Nov. 26th, the accounts were examined and passed, showing balance due purser at fast accessus, 258£. 8s. 3d.; labour cost for July, August, September, and October, 442£. 18a. 10d.; merchants' bills, 297£. 18a. 6d.—rogether, 999. 5a. 7d.—The following report was read:—The engine-shaft is sunk below the 75 fm. level about 9 fms.—the lode is from 3 to 4 ft. wide, with good stones of ore; the lode has changed its inclination from north to south; in the 75 fm. level, west of the engine-shaft, the lode is 15 in. wide, producing some ore, and of a very kindly appearance. The 42 fm. level, driving west on the south lode, is 5 ft. wide, with stones of ore."

## MINING NOTABILIA.

BENNY MINE.—The Ford lode holds out good expectations; and I think it would be advisable to go down another 10 fathoms. This district is looking well; a further discovery having been made at Wheal Williams. At West Wheal Maria, expectations are held out, although things are not looking quite so well in that quarter.

CALLINGTON.-In the 70 fm. level they have a course of ore, producing ab tons of copper ore per fm., the leader being 18 in. wide, solid ore. In the 25 fm. level they have a good lode, yielding 2 tons of ore to a fathom, of an

COMMLAWN.—In the engine-shaft, 15 fms. below the surface, they have in-ersected a lode about 1 ft. wide, containing silver-lead and iron pyrites—it is not the main lode, but a caunter, which was discovered in bringing up the obby level—the ground is favourable for sinking, and the men getting on well.

lobby level—the ground is favourable for sinking, and the men getting on well.

KITT HILL.—The tributers are raising some good work, and the men are also basy in putting in stamps, and making new floors, &c. This is a promsing sett, and I am of opinion, that before long, this mine will be worked with aprit. A meeting of the adventurers will take place on Friday next, the 3d inst.

LAMHEROOE MINE.—I am very glad to inform you, that we have taken the K lode, which holds out good promise. We have to contend with an influx of water, which, however, affords every indication of promise as coming from an open lode. I expect you will hear more in the course of a few days—as I have no doubt they will beat the water, and be in a position to drive upon the lode. You will, doubtless, have seen some specimens of the lode, which, although not strongly impregnated with ore, carries with it every thing that can be expected, or wished for, as conducive to the ore being in the immediate neighbourhood—which will, no doubt, be proved in extending on the lode. The lode is 4 to 5 ft. big, with mundic and spangles of copper ove of high produce; and I calculate on very profitable results, in a few fathoms driving.

TAYY CONSOLE.—The leader in the bottom of the shaft on Taesday was

TAYY CONSOLS.—The leader in the bottom of the shaft on Tuesday was a fix solid copper, and the remainder good saving work. All the levels are so greatly improved, as stated in the captam's report in your last Journal.

CORNWALL RAILWAY .- To the shareholders: At length a door is open to you; and if you do not take the opportunity to get through it, you are infatuated.—" Quest Deus vult perdere prius dementat." By the Government Bill, your directors cannot proceed without the concurrence of three-fourths of the shareholders. Will you be so mad as to give them your consent? At present, your shares, with a paid-up capital of 7l. 10s. are worth 1s.; while, if dissolved, the company can return 5l. "Think of that, Master Brooke." Call a meeting forthwith—shandon your contracts, on paying the amount due—dissolve the company, and divide the balance, says—A Coursist Max.

Amendren Railway.—This line is now completed. A deputation of the directors went over it a few days ago, and the Government inspector has been requested to fix an early day in the present month for its examination. The Brechin branch is site of finished, and has been inspected by the directors.

Edinburgh and Northern Railway.—On and after the 22d inst, advantage is to be taken of this line—now opened as far as Lindores—by the Edinburgh Post-office, for the transmission of mailsnorth of the Frith of Forth.

Limentick and Waternord Railway.—The first experimental trip on this railway, from the terminus in this city to the town of Tipperary (the line being nearly complete), was made on Wednesday, the 24th November, with great success, the engine having travelled to and from, the distance 40 miles, in the short space of 1 h. 20 m. The rail was perfectly level, and the weight of the train over several bridges on the line fully tested their strength and durayou; and if you do not take the opportunity to get through it, you are infa-

of the train over several bridges on the line fully tested their strength and di bility.—Limerich Chronicle.

LORDON AND NORTH WESTERN RAILWAY.—In order still further to

bility.—Limerick Chronicle.

LONDON AND NORTH WESTRIN RAILWAY.—In order still further to improve the character of their express trains, the London and North Western Company have, on the opening throughout of the Trent Valley Railway, commonoed running an entire set of new carriages. These new carriages are on fix wheels, are larger than any previously on the line, and are fitted up in the most comfortable, and even luxurious, manner.—Hailway Hecord.

According to Pesch, many enthusiasts, who, in the year forty-five, were prepared to throw a viaduct half-way across the world, are now scarcely able to construct a bridge to carry them safely over their last week's washing bill.

W. Betts, and G. W. Jacob, Wharf-road, City-road, for improvements in the manufacture of capsules, and in the application of designs to certain descriptions of surfaces.

W. Eston, Camberwell, engineer, for improvements in machinery for twisting cotton, or other flowers substances.

G. Mesnet, Wellington-St., Strand, D. L. for improvements in clocks and time-keepers.

W. Mewbray, Leicotter, paper-dealer, for improvements in machinery for the manufacture of looped shries.

T. Casadier, Rockton, Wilts, for improvements in machinery for supplying liquid manuers.—Mechanics' Mogazine.

SWANSEA DOCK COMPANY.—EXTRAORDINARY Current Prices of Stocks, Shares, & Metals.

adjourned to the Town-hall, Swansca, ch Thureday, the 2d of December, 1847, at two o'clock in the afternoon.

Present—Capt. EVAN MORGAN, R.A., the chairman of the company, in the chair Means it. W. Dillwyn. H. Hussay Vivian, Thomas Williams, O.G. Williams. John O. Richardson, Philip Rogers, jun.; John Oakshot, John C. Richardson, Philip Rogers, jun.; John Oakshot, John C. Richardson, Philips, L. Li. Dillwyn. L. R. Jones, Dr. Howell, J. A. Tarnold, B. R. Hennessey, Lewis Thomas, Ridd Thomas, George Row, J. M. Ellery, Lewis Roctely, Robert Eaton, Major Philips, L. Li. Dillwyn, C. R. Jones, Dr. Howell, J. R. Tripp, W. M. Maxwell, Dr. Williams, John Jones, James Walters, John Jenkins, Rich, Hichards, jun.; W. Morgan, David Jones, J. D. Roes, H. W. Jones, W. K. Eaton, W. H. Francis, Thomas Philips, Leac. Jacob, John Wm. Leach, Charles Haines, John Trev. Jenkin, and George Grant Francis.

The Chairman hawing taken his seat, the secretary stated, that he had recoived proxise for shareholders then present, from Rev. Thomas Morris, Dover: Sir John Piric, Bart, London; Geo. Nicholis, Eaq., London; Albert Jenkin, Eaq., London; Thomas Attwood, Eaq., Swanse; James Richardson, Eaq., London; William Edmond, Esq., Swanse; if Mr. R. B. Sanguinetti, London.

The Secretary having laid the sealed register of the company on the table, was requested to resist the advertisement convening this meeting, which was accordingly read. Lieut. Colonel Cameron stated, that he attended the meeting, without prejudice to his rights, as chairman, director, or shareholder, and protested against its legality.—Mr. N. P. Cameron mode a similar protest, and reserved to husself the rights as director and shareholder.—The Chairman having opened the business of the meeting, and the two notices, or advertisements, signed. "Edward M. Elderton," dated the several matters and things therein meetitoned, referred to, or contained, having been read and considered, and the directors have been uniformly legal, straightoward, and the own-results of the swanses and

cember instant, at the same hour and place."

The chairman having left the chair,
It was moved by Major Philipps, seconded by Mr. H. H. Vivian, and unanimously related by the chairman of the chairman, for his abconduct in the chair."

(Signed) GEORGE GRANT FRANCIS, Sec.

#### GREAT WHEAL MARTHA AND ITS DISTRICT.

Rivas moved by Major rampias assessment in the chairman, for his able construct in the chair."

(Signed) GORBGE GIRANT HAANCES, Sec. GORBGE GIRANT HAANCES, GORBGE GIRANT H

lities. But your correspondent must be sware, that a miner has never learnt all he can learn, and he ought to be open to conviction, and as willing to be taught as he is to teach.

Intan Mrs.s.—The following appears in the Evening Mail: "" Development of the Resources of Ireland: the Mines.—There is no phrase more common in all mouths than that which we have quoted above. It is the elementary phrase in the theory of every quack and nostrum monger; and yet, we regret to say, all that has yet been practically done for the development of the resources of Ireland might be recorded in a very short list. Among those resources our mines are usually named in a prominent position, and yet it will scarcely be believed that an old Act of the Irish Parliament, the effect of which is effectually to prevent the working of those mines, is allowed to remain on the statute-book, when a clause of a dozen lines would remove the difficulty it creates, without injuring any one; and that, notwithstanding applications upon the subject have been made, session after session, to Irish Governments of every form and quality." It is soldom that we can agree with the Mail; but, on this occasion, we admit that great injury has been done by allowing the Act in question to remain without amendment. It is certain that no Government hitherto has taken up the subject; not, we are size, from indisposition to make the sultirary change so much needed; but the neglect arose from the frequent removals of Irish claif secretaries. However, we have reason to believe that the present Government have devoted attention to the matter, with a view to alter the law effectually, and that for Sir William Somerville has been reserved the credit of rectifying the blundering legislation of the Irish Parliament in the reign of Georgs the First.—Dublis Evening Post.

In addition to the four new eight wheeled engines lately built at Swindon by the Great Western Railway Company, two more, built on the same principle, and of the Saites, and the other the Pasha.

Bank Stock, 9 per Cont., 189 61 8 per Cent. Reduced Arm., 64 1 8 per Cent. Console Ann., 64 1 8 per Cent. Annoties. 3 per Cent. Annoties. 10 per Cent. Annoties. 10 India Stock, 10 per Cont., 23 20 dis. 8 per Cent. Console for Acct., 86 1 Exchequer Bills, 10001. 3d., 3 6 pm.

Belgian Bonds, 4½ per Cent., 54 Dutch. 2½ per Cent., 54½ % Brazilian, 5 per Cents., 75% Chilian, 6 per Cents., 75% Actican, 5 per Cents., 15 ½ Spanish, 5 per Cents., 17½ 16½ Ditto 3 per Cents., 25½ % Portuguese, 5 per Cents., 74 Russian, 5 per Cents., 766

MINES.—The business transacted in mining shares during the week has not been so limited as we feared at the commencement, for within the past few days many shares have been done, and greater activity appears to prevail. The steady inquiries for those in paying mines afford us considerable ground for anticipating a firmer and better market. A slight im-provement was made last week in the standard; but, could we calculate on a progressive rise, associated with the advance in Consols, and a reon a progressive rise, associated with the advance in Consols, and a return of confidence in our monetary affairs, we might then expect a decided improvement—indeed, we do predict, and, no doubt, shall see mining have the ascendancy over other interests. Purged of its illegitimate speculations, fictitious and unjustifiable premiums, and resting upon its own merits, will, by our monetary panic, be purified, like the ore passing through the furnace. In making this remark, we have before us the practice pursued by several parties, who obtain setts, and, by misrepresentations, supported by the reports of ill-advised or ignorant persons, assuming the ambiguous appellation of "captain," induce the unwary and confiding to take shares at a premium; and, having parted with all their interest, leave the deceived holders to proceed with, or abandon, the operations with all the responsibilities attached. Such proceedings as these have brought a disrepute upon legitimate mining, and are, by far, a species of "stags" worse than ever disgraced a railway market, or Capel-court.

South Caradon two-monthly account meeting was held on Tuesday, the 30th ult, when a dividend of 10th per share was declared, being the sixth this year. The mine is stated to be looking exceedingly well.

The improvement which has taken place in the Callington Mines has created several inquiries for these shares, at advanced prices; and some business has been done.

Several shares in Carwinning Hill Mine have changed hands this week; and, from the stones of ore which we have seen, and stated to have been raised from a very shallow depth, speaks well for the district. We congratulate the adventurers on the appearances, and trust they will have a good mine, as a reward for their enterprising spirit.

Tremayne is reported to have improved—which will, no doubt, have some influence on her neighbour, West Providence, should the improvement continue.

In another column will be found a notice of an important meeting of the West Maria adventurers, held at Tavist turn of confidence in our monetary affairs, we might then expect a decided

ment continue.

In another column will be found a notice of an important meeting of the West Maria adventurers, held at Tavistock, on Saturday last. The mine, it will be remembered, was suspended a short time since, in consequence of the large arrears of calls due, and when the prospects at the time were of the most promising nature. Since this, the discovery in Wheal Williams has greatly enhanced the value of West Maria; and it is to be hoped those of the shareholders who have not paid their calls, will now do so without delay, and aid the gentlemen who have thus come forward to rescue from being "knocked" one of the most promising speculations of the day. Many of the forfeited shares have, we believe, been already applied for by large proprietors, who are willing to give the amount of calls due for them; and some, we think, should be offered to the public.

already appears for by range and some, we think, should be offered to the public.

We quoted Wheal Williams, last week, at 20, although we were not aware of any transaction having been effected in this market above 104. Relying on the average of the prices quoted in the county, we called them 20; but, learning no such prices have been realised, we have returned to our former quotation of 12, at which bond fide business has been done.

We understand, that several shares in the Merionethshire Slate Company have changed hands, at our present quotations; and, from the favourable and satisfactory change which has taken place in the management, we have not the least doubt of this profitable-working company taking a firm position among the many new Welsh slate companies of last year's production.

Devon Great Consols continues in request, and we learn, that a consi-

Devon Grat Consols continues in request, and we learn, that a considerable improvement has taken place in Wheal Fanny during the week. In Plymouth Wheal Yeoland, they have made an important discovery in cutting a south lode, reported to be very good, which accounts for the demand for these shares.

Business has been done in the following mines this week—vix.: East Wheal Rose, Devon Great Consols, Trelawney, Callington, Alfred Consols, Trehane, West Providence, Gwinear, East Wheal Crofty, Stray Park, Herodsfoot, East Crowndale, Wheal Williams, West Wheal Jewel, Bedford United, Plymouth Wheal Yeoland, Pennant, Caradon, Wheal Hooper, West Wh. Friendship, Condurrow, Mary Ann, Treviskey and Barrier, &c. In the foreign share market, we learn that but few transactions have

In the foreign share market, we learn that but few transactions have taken place—several Australians, and a few Imperial Brazilians and Asturians have been done.

RAILWAYS.—With the steady improvement in Consols which has been taking place, railway shares have looked better this week. On Wednesday, they were firm, and several lines were done at higher quotations. On Thursday, things were still gradually improving; and, up to last night, a very steady business had been doing at the quotations of the previous day.

HULL, TRUNDAY,—The market for shares remains very quiet, and ther disposition to operate. The York lines and North British are in fair request theres have not been so much affected by the call as might have been any of the dealers in shares are waiting the result of the debate on the currency with by the Chanceller of the Evenberger.

RAILWA	Y TE	APPIC B	ETURI	W.	and the n	137 3cl
Name of Railway.	Lgth.	Present ac-	Price per share	Last Div.	Traffic 1847	Return   1840
Arbroath and Forfar	15	£179,939	26	4p.c.	£ 226	193
Chester and Birkenhead	15	706,798	STATES OF	11100	550	516
Dublin and Drogheda	85	738,655	11 Bare	31	716	673
Dublin and Kingstown	73	473,282	100		715	956
Dundee, Perth, and Aberdeen	36	285,745	200		876	1267
East Lancashire		1,207,490	21	A Section	855	766
Eastern Counties	434	7,698,370 979,996	161	S-26-19	1142	8065
Ealinburgh and Glasgow	50	2,375,745	47	released r	3167	3295
Edinburgh and Northern	29	953,207	164	Marie Com	855	9290
Hasgew, Paisley, and Ayr	601	1,890,547	121	7	2504	2060
lasgow, Paisley, & Greenock	23	838,964	193		1035	907
t. Southern & Western, Ireland		1,876,326	221000	Hearing	1563	893
reat Western	2401	10,630,763	101	100	15511	115027
Cendal and Windermere	101	147,001	93	100	90	-
ancaster and Carlisle	70	1,291,913	52	N. 49	1138	-
ancashire and Yorkshire		6,807,814	76	7	8330	8607
ondon and North Western	428	20,010,467	165	9	36690	34262
ondon and Blackwall	11.4	1,146,289	STATE OF THE PERSON NAMED IN		635	735
ondon, Brighton, & South Coust	147	5,659,180	431	3	7096	6784
ondon and South-Western	186	5,836,132	55	9	6535	5556
ondonderry and Enniskillen	144	2,078,135	241	8	102	1822
lanchester, Sheffield, & Lincolnsh. Laryport and Carlisle	28	424,417	80	3	2164	531
fidland Company	282	8,656,604	108	710	5t1 18731	17354
fidland Great Western (Irish)	264	583,776	100	Arthur Tr	850	11100
leweastle and Carlisie	200	1,184,080	117	600	2020	2001
orfolk	704	1,375,633	83	b65.81	1700	1200
lorth Reitish	78	2,514,150	271		2086	1141
hrewsbury and Chester	17	591,158	214	STATE OF	547	17000
outh Devon	29	1,339,860	23	0.000	619	255
outh-Eastern	1571	6,898,218	304	6	7107	6678
aff Vale	38	785,607	COPPETE S	51	1797	967
later	25	646,211	52	6	671	739
hitehaven Junction ork, Newcastle, & Berwick	12	130,000	-	44	185	100
ork, Newcastle, & Berwick	3361	3,685,103	33	9	10817	71471
ork and North Midland	196	3,196,869	76	10	7220	1 5475
	EIGE		YS.	10.00	depths its	E BARLET
miens to Abbeville	28	673,386	(AT)	A STATE OF	1313	articles.
ntwerp to Ghant (three weeks)	91	\$100 FE(\$100 S.S.	SOLATOR	THEFT.	64135	60670
elgian	574	Provide Bully Mil	15. 11.04.07	O EMOTO	920	878
orthern of France	211	2,000,000	12	giornal a	13350	7736
rleans to Bourges (Central)	70	OTHER DESIGNATION OF THE PERSON OF THE PERSO	(\$2957) in	NY SERVICE	2905	01.20
riegns to Tours	72	400,000	2 2	H VOLEN	3646	2430
aris and Orleans	82	2,011,720	44	124	8519	7220
arls and Rouen	85	2,082,916	151	94	6550	5335
ouen and Harre	894	Contract of the last	191	副湖	2595	100
trasburgh and Basic (monthly)	98	Ch Carried Street	200, 100 (21)	16	9060	10327
Vest Flanders (ditto)	-	IN THE PERSON	CHOICE CO.	1	1615	-

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MONTHLY REPORTS.

MONTHLY REPORTS.

[FROM OUR CORRESPONDENTS.]

Inc. During the last month the price of Welsh iron receded to the extent of 15s. per ho, bars being now quoted at \$4. per ton free-on-beard in Wales. The almost complete semoval of a prespect of considerable demand for railway bars, and the generally disarbed state of business, will sufficiently account for this fact, and justify the expectation of further decline. Staffortishire iron has also yielded, but not so generally as Welsh, cotch pigs have fallen considerably, since the date of our last. The firmness exhibited in this article in October proved not to be autestantial, and gave way under the presente of the times. A few sales have been made at rates gradually declining, until, from 50s., the pening price last month for mixed Nos., they are now at 48s. seliers. In Swedish steel alse were made as 144, being a fall of 10s. In other descriptions of foreign iron we report no transactions.

opening price last month for mixed Nos., they are now at 49s. sellers. In Swodish steel also were made at 14f., being a fall of 10s. In other descriptions of foreign iron we report no transactions.

Corpers continues firm, with demand sufficient to take off the present produce. Yellow metal sheathing remains unaltered.

Thr.—In English very little was done during the past month—some few sales were made under quotations, and a general reduction was expected; but as yet the market prices continue as quoted, and the amelters will not submit to lower rates. Bance and Straits continue dull, a few small sales have been made at quotations. The stock of both sorts on hand was 49t ions yearderday.—The PLATES are very quiet.

Lead has given way a little, the demand for exportation being very limited, though for home consumption the continues fair.

Braitras.—A demand for home consumption having arisen in the past month, several large sales were made at 17t. 18a, 17t. 18a, 6d, 17s. 18a, and 18t. (at which there are now buyers), and finally at 18t. 9s. per ton, which we quote as the present price. The glock on 1st inst., was 2255 tons.

IROS.—During the past month the iron market has undergone a further depression, chiefly owing to the stoppage of railway works, and the continued pressure in the money market. This trade, which for two or three years past has been highly prosperous, is now evidently about to undergo a change for the worse. Some large makers have already suspended payment, throwing a great number of men out of employment; and ramours are rife, that unless the trade is better supported, considerable mischief may take place, both at Glasgow and in Staffordshire. The demand for all kinds of iron has greatly decreased, while the stocks are accumulating. In some degree to meet the case, ironmasters are naking arrangements to lessen the make, and reduce the wages of their workmen. A sale of 2000 tons of rails made within the last week, is said to have realised a price equivalent to not more than 71, per ton in Wal

Specialtors in Scotland.

EMGLISH COPPER is firm, with small demand.

In EMGLISH COPPER is firm, with small demand.

In EMGLISH This there is very little business doing, but prices remain firm. Banca and Straits are little enquired for.

In Tist-Plazes mothing doing, and prices are nominal.

LEAD is dull of sale, and prices have slightly declined.

EMZLISH has been in good demand during the latter part of the mouth, and the prices as advanced from 174, los. to 184, 5-a., chiefly owing to the small slock here, and accounts orm Hamburg, announcing large purchases (supposed to be for French account), at a rice equal to 194, per ton there. The stock of spelter here on the 1st inst. was 2235 tons.

THE IRON TRADE.

A meeting of Welsh ironnasters was held yesterday, for the purpose of discussing the goterests and the prospects of the trade. It was finally agreed, that, from the present depressed state of trade, and reduction of prices, it became hidispensable to reduce the rate of wages. This is a result greatly to be lamented and depressed. It may be quite true that, within a few months, the price of bar-iron—the form in which Welsh iron is generally delivered—has declined from ten guinoas to 7t. 15s. per ton; but it is not the less true that, at the former excessively high price, enormous profits were realised, without any proportionate advantage to the mining operatives. The reduced price of 7t. 15s. per ton about still afford ampie returns upon capital to the great ironnasters of Welse—the greatest, indeed, in the world. We have good reasons to believe, from calculations of our ewen, made in Morthyr Tydyl, some years since, and on dasta furnished from personal inspection of books and returns, liberally opened to us by the aropristors of one of the largest iron—works in the district, that bar-iron can be readily produced now, not without some profit, at 6t, per ton, as then, with much lower wages, it could be made at 6t, or little more. Several large works there can readily furnish from 9,000 &550,000 tons per year. The return profits may thus be readily estimated approximately. We repeat our regret, therefore, that a present decrease of too large profits should be visited so hastily upon the operatives—supposing the determination of the meeting of masters such as reported—seeing that the operatives could have had no proportionate share in the advantages derived from the before very high rate of profits which fall to the masters.

It is with sincere regret we have to amounce the failure of the large and respective.

tempet our regret, therefore, that a present decrease of too large profits should be visited as healthy upon the operatives—suppositive could have had no proportionate share in the standard as represented from the before very high rate of profits which fell to the masters. It is with sincere regret we have to announce the failure of the large and respecable house of Boydell and Company, of the Oak Farm Iron-Works, near Dudley. This establishment has long, and deservedly, held a first-rate name in Sonth Staffordshire. The original firm or of steed of Lord Lyttleton; the Right Hon. W. E. Gladdone, M.F.; Sir S. Glyn, Bart.; and others, of high standing; and, on their dissolving partnership, the works were taken by Mr. Roger, a gentleman of Large landed property, associated with Mr. Royell. The old company book a mortzage on the property for 12,0004; and, a father one, for Boydell and Company to about 66,0004; the uncovered debts amount to about 36,0004. The Boydell must teel his position most acutely. He was highly and deservedly respected as a master, neighbour, and friend—and will meet with the sympathy of all who know him. The establishment, of which he was maraging director, was deservedly and extensively known for the superior fullsh of its work; a not the numerous patents of Mr. Boydell, which we have had to describe, prove him a man of no mean inventive genius. For sheal articles, the house was particularly famous. It is to be hoped measures may be adopted which will allow of the works being proceeded with, as their entire stoppage will throw out of employment 1500 hands. Nothing can more fully show in feeding of the mean towards their employers than the fact of their offering to work a month graits, I'll two works being the continuous and the summaring which prevailed had clerks—consented to a rive a portion of their carriage to work a month graits, I'll two would be of employment 1500 hands. Nothing can more fully show in feeding of the reductions of the measurement of the control of the reservation.

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gae that will be, in their opinion, found the most conducive to the interests of all parties concerted."

Fourth resolution, proposed by Mr. Coley; seconded by Mr. Smith.—"That as Mr. J. Poster made an advance of 11000, on a sale or depost of from, at the request of Messra. Boydell and Roper, on Saturday last, to pay the wages of the men, and to save the probabile destruction of machinery and less that might have emused had the wages been unprovided for—Recolved, that Mr. Foeter be requested to dispose of the Iron, and, after payment of his own demand, to pay over the surplus to the Oak Farm Company; and that the best thanks of the meeting be given to Mr. Foster, for his liberality and kindness in emming forward with so much promptitude on such an occasion."

Fifth resolution, proposed by Joseph Bennett, Esq.; seconded by Yeter Tasker, Esq.,—"That this meeting be adjourned to Thurakay, the 23d day of Documber Inst., at half-past one."

Thanks proposed to Mr. Badger, and seconded.

Upon the determination of the old company, in answer to the representations of the deputation, will depend the position in which the creditors will hereafter stand. The failure is attributed to the loss which the company has recently suctained by an immense at a steady of stead articles of their own manufacture. The sacrifice upon this occasion was im-

GLASGOW.—Some additional failures in town this week have tended still further to nervess the gloon which formerly existed in this place. Pig-tron participates in the pipression, and we have again to report a further decline in the price of this article. The ransactions have been to a very small extent. The price may be quoted to-day at 48s.,

for mixed Nos.—cash.—Dec. 2.

BIRMINGHAM,—Since our last amount of manifest to reduce the make, as the only alternative to the reduction of prices. A meeting of the magnates of the trade was held at Wolverhampton, tast week, but so decision was arrived at, and the meeting was adjourned. In the meantime it has transpired that the principal makers of pig-iron have contracts to fulfil which will require their utmost capabilities for the present quarter; but it is greatly to be feared, that after Christmas a number of furnaces will be blown out, with a view of equalising the production and demand. The Ministerial railway measure will, doubtless, produce a great amount of uncertainty and depression: it has already induced a disposition to reduce the make, and its unischipfous effects upon the trade can only be effectually met by a reduction in the price of latiour.—Birmingham Advertiser.

WOLVERHAMPTON.—The state of the iron trade—the staple trade of this district—is at the present moment attracting much attention, and, we may add, is the cause of much anxiety. Till within the last week or two the anticipated depression has been almost confined to the range of possibility, but since that time weakness has shown itself in several quarters, and in some instances a reduction of price has been submitted to. The general feeling in the trade, however, appears to be in favour of a reduced make, rather than an alteration in the price. Half work has already been adopted in some establishments, and we hear that other furnases are about to be blown out. The depreciation is generally thought to be attributable chiefly to the state of the money market, which, from the difficulties and high rate of discounts, has caused many orders to be counterranaded, and many payments to be postponed beyond the usual period. Ferhaps one of the most discressing features of the prospect is the season at which the check takes place. Just at the commencement of winter there must inevitably be distress, unless the stops about to be taken by Farliament relieve the country.—Welcerhampton Chronicle.

0	PRICES OF MINING SHARES.									
d	BRITISH MINES.	BRITISH MINES—continued.								
0	Shares. Company. Paid. Price.	1100 South Dolcoath 8 22								
	512 Albert Consols 1 24	256 Sth. Friendal, Wh. Ann 16   25								
0	256 Alternum Consols   2   15   235 Andrew and Nangdles   28   11   10000 Ayrshire Fron Company   5   1624 Balleswidden   9   18   128 Balnoon Consols   25   25	256 South Tolgus 71 40 256 South Trelawney 20 84								
	1624 Balleswidden 9 18	128 South Veoland 16 20								
r	1000 Barristown 44. 10	124 South Wh. Francis160 200 256 South Wh. Hope 5								
1	128 Besore Lead Mine 10	256 South Wheal Rose 11 1								
	8000 Biaenavon 50 23 100 Botallack 175 80	10000 Southern&Western,Irish 2 4								
	190 Brewer	250 South Wh. Sophia 4 4 4 10000 Southern& Western, Irish 2 4 280 Spearne Moor 30 40 250 St. Austell Consols 9 10 94 St. Ives Consols 9 10 128 St. Michael Peakivel 5 104 1000 Stray Park 42 23 9600 Tanay Consols								
,	- Ditto ditto, scrip 10 12	128 St. Michael Penkivel 5 104 1000 Stray Park 43 . 23								
	120 Brewer   5 7 7	9600 Tanar Consols 3 4 1024 Tavy Consols 4 5-6 6000 Tincroft 7 8 1000 Tin Vale 2 2 128 Tokenbury 1434 10								
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	256 Caradon Copper Mine 91 - 1 256 Caradon Mines 221 - 17	5000 Treleigh Consols 6 31								
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0		190 Troviskov and Bayelov 190 145								
1	2048 Cascade	258 Treveal								
0	1900 Combinartin 71 3 500 Combinartin 6	256 Weilington Mines 15 30 128 West Basset 45 30								
į,	256 Condurrow 20 35	256 West Caraden 20 140 128 West Cargoll 2 . 12								
11	2560 Cook's Kitchen 14 2 2048 Coombe Tin Mine 44 2 1000 Coombe Valley Oparry 11 2	128 West Cargoll								
0	1000 Copper Bettom 1 1	- West of Scotland IronCo. 210. 210								
	2048 Counts Tin Mine	256 West United Hills 64. 1 256 West Wh. Friendship. 8. 10								
	7500 70	256 West Wheal Jewel								
	7100 Derwent	256 West Wheal Shepherd. 3 24 256 West Wheal Toigus 212 8 256 West Wheal Treasury 19 10								
1	1024 Devon Great Consols. 1 200-250 1000 Dhurode 2 5									
	i900 Dhurede	184 Wheal Adams 51 10 1000 Wheal Agar - 10 256 Wheal Albert 10 8 128 Wheal Acland 13 2								
1	ose Park Manager 194 35	128 Wheal Atland 13								
	112 East Caradon 42 42 2048 East Crowdale 44 24 512 East Combe Silver-Lead 64 64	256 Wheal Allen 2 5 237 Wheal Anderton 18 25 128 Wheal Ann 501								
i	1 St. Fifth L Gof o 40	512 Wheal Ann, Bridford 1 2 512 Wheal Anna Maria 5								
	100 East Relistian 22 40 9000 East Tanar Consols 14 2	128 Wheal Arvose 31 5								
l	100 East Relistian 22 40 9000 East Tannar Consols 19 2 — East Wheal Albert 1 3 91 East Wheal Fortune 2 3 125 East Wheal Fortune 2 3 128 East Wheal Fortune 2 3 128 East Wheal Rose 50 1300 9048 East Wh. Rough Tor 2 2 East Of Scotland From Co. 24 4 123 East Whoal Seteu 14 15 26 Elbersseh 1 2	120 Wheal Bal								
-	129 East Wheal Rose 50 1300 2048 East Wh. Rough Tor 2 2	256 Wheal Blencowe 8 8 256 Wheal Bucketts 20 5								
ı	123 East Wheal Seton 14 15	136 Wheal Cultord 3 4								
	256 Eiborough	1024 Wheal Cond								
1		256 Wheal Dyke								
1	10000 Gen.Mining Co.for Irel. 2 14 14 14 14	512 Wheal Fortune Consols 31 62 2048 Wheal Frederick 2 2 388 Wheal Franco 27 30								
ı	10000 Gen. Alming Co. for Irel.   2   1   2018   Georgia Tin Mines   1   1   1   256   Gonamena   31   4   1   28   Georgia Tin Mines   31   4   1   28   Georgia Tin Mines   1   1   1   1   1   1   1   1   1	388 Wheal Franco 27 30 128 Wheal Harriet 45 50 256 Wheal Jane 21 15								
1	100 Great Consols 1000 400 . 256 Great Callestick Moors 22 25	128 Wheal Harriet 45 50 2.66 Wheal Jane 21 15 256 Wheal Louisa 84 8 112 Wheal Margaret 79 250								
I	2560 Great Michell Consols 11 4 256 Great Resugga Moor 7 10 512 Gt.Wh.Rough For Con. 134 25									
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œ.										

THAMES TUNNEL COMPANY.

There of passengers who passed through the Tunnel in the week ending Nov. 27,

was 15,853; assount of money, £66 is id.

IRON COMPANY has to solicit ORDERS for their ANTHRACITE PIG-IRON This from mixes well with Scotch pig-imparting to it strength and clasticity, and ratering from it a person of its somess and findity. No. 3 Fig is recommended for mining with soft iron—Nos. I and 2, for machinery castings, requiring great soundness as strength. At this period, when each-iron is so much employed in the construction of bridges and other buildings, requiring all the strength and clasticity which the best mix strength actual will affect, it may be interesting to call attendion to the characteristics of ANTHRACITE PIG-IRON, as ascreamed by that great practical authority, the last David Musier, Eag., M.I.C.E.:—

"It greatly exceeds, in strength, in defective powers, and capacity to resist impact, and iron at this time manufactured in the United Kingdom."

"It now only remains for me to mention a property peculiar to this frem, which we associed at the time. I made the trial experiment, our years ago, but which has been more fully developed in those more recently made. The property referred to is one of great presentes, or classicity, which communicates a tendency to the bar, in defecting and breaking, to resume its rectangular form. Bars that had obtained a pormanent set of 2-10ths, when afterwards broken, presented but a slight developed from the defecting and in no case, did the curvature exceed one fourth of a tenth."

"It was also remarked, that most of the fractures, in breaking. STRONG MIXING PIG-IRON,—The YSTALYFERA

same its rectangular form. Bars that had obtained a permanent set afterwards broken, presented but a slight deviation from a right line; an the curvature exceed one-fourth of a fresh." remarked, that most of the fractures, in breaking, presented a regularithout, resembling the structure of understanded steel. Address THE YSTALYFERA HON COMPANY, Address THE YSTALYFERA HON COMPANY, 22, 1847.

HOT-BLAST WITHOUT COAL, LABOUR, OR REPAIRS.

DIXON AND BUDD'S PATENTS.

Apply for particulars, or to inspect the process in operation on six blast-furnaces, to Apply for particulars J. Palmer Budd, Esq., Dated June 22, 1847.

OMMERCIAL ELECTRIC TELEGRAPH.—The only really COMMERCIAL TELEGRAPH is that which may be used for ALL PURPOSES, without restriction—upon which terms Messirs. BRETT & LITTLE are prepared to GRANT LICENSES for their ELECTRO-TELEGRAPHIC CONVERSER.

For tickets to inspect, apply to BRETT & LITTLE, Furnival's lins, London

COPPER ORES.
Sampled Nov. 17, and Sold at Andrew's Hotel, Redresth, Dec. 2, 1847.

Afines. Tons. Pri	
North Pool 121 £3 15 0	Camborne Venn - 45 £6 4
ditto 117 3 16 0	ditto 43 4 9
ditto 110 3 11 6	113 H & 14 1 ditto 0 1 1 41 1 14 16
ditto 95 5 14 6	Dolcoath 105 3 15
ditto 86 3 8 0	ditto 81 6 18
ditto 72 5 19 6	ditto 59 4 18
ditto 64 9 0 0	ditto 38 1 19
ditto 22 3 12 0	Fowey Consols 5 14
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	AL PRODUCE.

COMPANIES BY WHOM THE OPES WERE PURCHASED

ETHEROPE OF THE PARTY FOR STREET OF THE PARTY OF THE PART	Tons.	Amount	
Mines Royal	. 168	£684 II	6
English Copper Company	. 659	3136 0	0
Vivian and Sons	. 10164		
Freeman and Co		2239 9	6
P. Grenfell and Sons	. 640	2522 16	0
Crown Copper Company	524	196 17	6
Sims, Willyams, and Co	636		
Williams, Foster, and Co	. 10101	5812 8	6
Total tons	4555 261	2,425 12	0

Copper ores for sale on Thursday next, at Andrew's Hotel, Redruth.—Mines and Parcels.—Carn Brea Mines 903—Par Consols 324—Wheal Prosper 222—United Hills 170—Wheal Tremayne 147—Wheal Bucketts 126—Wheal Jane 64—Wheal Agar 60—Wheal Rodney 50—North Wheal Basset 53—Great Work 46—Wellington Mines 30—Bastlan's Ore 30—Trenow Consols 18—Hauson Mines 8.—Total, 2257 tons.

NO SALE on Thursday week, Dec. 16.

## COPPER ORES.

Sample d Nov. 10, and Sold at Swansea, Dec. 2, 1847.

Mines. Tons. Prod. Stand. Price.	Mines. Tons. Prod. Stand. Price.
Cobre 91 144 85 £9 17 0	Kapunda 49 251. 861 220 0 0
	ditto 48 252 861 19 18 6
ditto 76 144 85 10 6 0	Berehaven 110 94 971 7 0 0
ditto 111 144 84 9 12 6	ditto 104 94 95 6 17 6
ditto 106 144 844 9 14 6	Burra Burra 60 204 87 1.15 7 0
ditto 82 141 854 9 18 6	ditto 50 194 884 15 0 0
	Paringa 48 202 884 16 2 8
ditto 106 144 844 10 2 6	Chili 44 47 74 32 10 0
ditto 96 15 82410 3 6	ditto 38 46} 79\$ 34 15 6
ditto 50 244 784 17 0 0	Paringa 44 214 884 16 10 6
Kapunda 76 24. 871 19 2 6	Gloster Slag 11 7 964 4 9 0
ditto 67 254 87 20 2 0	ditto 6 30 77421 0 0
ditto 62 234 874 18 10 6	Kanmantoo 11 19 87 14 6 0
	PRODUCE.
	Paringa 48 £772 16 0
Cuba 377 4165 13 6	Chill 81 2751 9 0

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 Berehaven
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 Gloster Slag
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COMPANIES BY WHOM THE ORES WERE PURCHASED. COMPARISE B AMOUNT CONTROL OF THE CO

£23,252 2 0

BLACK TIN.

Mines.	Tons.	Price per ton.	Purchasers.
Charlestown	18	£43 7 6	Daubuz ; Calenick ; Williams.
ditto			Williams and Co.

EXPORTS OF METALS TO ALL INDIA FROM LONDON AND LIVERPOOL, FOR THE PIRST BLAVES MONTHS OF 1846, AND 1847.

N.				_ /10. KW 1		
à	Spelter 7048 2694		4566	****	arese I	622
	Copper 3064					
j.	Iron, British 10355		7715	2640	****	
	Ditte, foreign 766	A	3215	*****		440
ď	Tin-plates Boxes 7147		6778	369		
ő	Load	*****	468	· · · · · · · 546		
ŋ	Steel 542	*****	753			231
ė,	Quickeliver Bottles 56	*****	755 .			706

NOTICES TO CORRESPONDENTS.

ened, as to desire the and our communications of Mr. Henry with find a space for their reports process. The communications of Mr. Henry Williams (Contypool), and "Henda" (London), shall be inserted in our next Journal. We receive so many isters on this subject, as to render it altogether impossible to comply with the request of the writers by giving them insertion; indeed, we think, after the two referred to are published, the discussion had better close—with the exception, perhaps, of the concluding explanations of Mr. Adoock.

ing explanations of Mr. Adcock. INING IN CARDIGANMERS.—The communication of Capt. M. Francis, on the Cwonys with Mines, shall appear in 0.17 next.

he Minimo Journal is published at about Eleven o'clock on Saturday morning, at the office, 28, Flood-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

## THE MINING JOURNAL Railway and Commercial Sazette.

LONDON, DECEMBER 4, 1847.

There has been no material change in the commercial state of affairs, since our last publication. We are bound to consider ourselves still standing on that intermediate, neutral ground which separates suffering from enjoyment, and distress from a prosperous state of circumstances. The Parliamentary discussions of the week have thrown considerable light on some of the causes of the general embarrassment, out of which we have been now some time emerging. The draining out of the kingdom of thirty millions, to pay the foreign corn-grower, and of thirty millions more, from its ordinary channels, in obedience to railway calls, is such an exhaustion of the floating capital—which is the animating principle of all commerce channels, in obedience to railway calls, is such an exhaustion of the floating capital—which is the animating principle of all commerce—as no living nation but this could have stood up against. In addition to this there arose, in the months of September and October, a panic-fear that our accumulated wealth was insufficient to meet our accumulated wants; and capitalists, as a body, stood cautiously aloof, in apprehension of that very storm which their own conduct was, at that moment, accelerating. The result is known to the whole world; for the pealing of the tempest was heard from continent to continent, and flung back its echoes from shore to shore. It may be confidently affirmed, that there was nothing to justify these fears. The double expenditure we were incurring would have sharply tested our resources; but it would not have shaken, very deeply, our commercial stability, if confidence had been but moderately maintained; and, as it was, a waving of the Government hand was sufficient to re-assure the wavering, and to embolden the timid. On the whole, it is a great lesson for the future Government of our commerce, as a great system, and for our commercial men in their On the whole, it is a great lesson for the future Government of our commerce, as a great system, and for our commercial men in their separate relations. It will be seen, that public securities are still improving, and going up; and though the motion is somewhat heavy, it is steady, and sustained. We fear that no remarkable improvement is likely to take place sooner than Jan. next, as there is a very general tendency to lessen outstanding liabilities, when the universal pay-day is so near at hand. We are happy to find, notwithstanding, that large foreign orders have recently been received for our manufactured produce; and that there is a probability that a very fair winter trade will be done in that direction. The general activity of the iron districts is, we believe, somewhat impaired, in consequence of the suspension of some of the railway contracts. The business done in mining shares during the week has not particularly varied from the week preceding. In this branch of our domestic industry we wait the fuller extrication of trade and commerce from its difficulties, and the coming on of that enlarged spirit of enterprise and adventure which is likely to dawn upon us with the dawning of the new-born year.

The importance of employing well-finished and properly-tested machinery, as well as the most careful, efficient, and trustworthy persons to superintend it, in all situations where large bodies of persons are congregated, was never more painfully exemplified than in the late unfortunate boiler explosion on board the Cricket. We have on so many occasions noticed the subject, that it would be but superfluour to allude to it a new length on the present have on so many occasions noticed the subject, that it would be but superfluous to allude to it at any length on the present occasion; but we particularly call the attention of our readers to a letter in another column, to Load Chier Justice Darman, from the pen of an engineer who has had long experience in the management of steam-boat machinery, and who appears to be well acquainted with every peculiarity of the engines of these boats, and of the circumstances connected with the unfortunate occurrence. There certainly does appear to have been sad neglect on the part of some of the parties engaged to defend Hearsman, in not calling all the witnesses in his favour, whose names were entered on the connect's brief. Had Mr. Baren been called, he was prepared with evidence which must at once have convinced the jury that Hearsman, at least, was anything but ignorant of the business he had undertaken; and that, while thoroughly acquainted with the nature of his duties, he had not neglected them. As it was, we could observe nothing in the while thoroughly acquainted with the nature of his duties, he had not neglected them. As it was, we could observe nothing in the evidence to justify the jury in the verdict they delivered reflecting on the character of an honest man, and subjecting him to the treatment of a felon. Mr. Baker's letter, which we publish with pleasure, is thoroughly explanatory, and, we trust, will place Heaseman in a proper light before the public.

We have great pleasure in congratulating Mr. Joshua Richardson, of Neath, on his reception of the Telegrad silver medal, and the conneil's premium of books, from the Society of Civil Engineers, for conneil's premium of books, from the Society of Civil Engineers, for his paper on the "Ventilation of Mines;" and we may congratulate, in a larger sense, perhaps, the thousands of labouring men in the great coal-fields of England and Wales, on the suggestion of means, competent in the judgment of this distinguished society, whose name we have quoted, to add to the safety, and to increase the wholesomeness, of that deep and heavy atmosphere in which they are called together to pass so great a portion of their existence—an existence which, we trust, will be rendered the more healthy and the more secure by an attention to the suggestions contained in this valuable prize paper. Its contents were inserted in a Number of this Journal of 27th March last, and to its publication there, in extense, we must refer our mining readers. We may be permitted to express a hope, that the general body of coalmasters will promptly and voluntarily adopt a measure for the purification of their mines, by which human life is likely to be largely aconomised, and the personal and domestic comfort of the miners much increased. We have, as we think, had occasion to deplore the torpor and insensitive of the masters, as to the comfort and improvement of their habouring dependents. We entertain an expectation that a better

feeling has supervened; and that, though it is not possible to make gentlemen humane and sensitive by Act of Parliament, a better view of their duties and their interests will inspire greater consideration for the comfort of those thronging thousands, whose case Providence has so fully placed in their hands.

In our columns of the 6th Nov., and again in those of the 20th, we called attention to a movement now in progress in the mining districts of the midland counties of England, to raise a subscription for the erection of a monument to the memory of Sir Humpungy Dayr. In our first remarks on this interesting subject, we stated that the idea had emanated from Mr. J. Garnya, owner of the Titford Bridge Colliery, Othbury—we have received a communication from Mr. Garnya, stating that he is not the owner of the colliery, but clerk, and that "he had never heard such a proposal named by any other human being." We can only say that the idea, with the stops he has taken to carry it out, do him great credit—the more so, as filling the humble situation which he informs us he does. It is not now a question whether the Davy lamp has been abused, or been made available to the worst purposes of capidity by the coal owners at the expense of the lives and limbs of their workmen, and the reduction to ruin of their wives and families. It was an invention involving the deepest scientific research, persevered in with the most disinterested anxiety, for the amelioration of the dangers attending the working miner, and which, had it been employed as its anthor intended, and not left to the recklessness of the miners themselves, for whose benefit it was intended, it would have proved a guardian angel, instead of what it has too often proved "an ignis fatuus to lure to destruction". for whose benefit it was intended, it would have proved a guardian angel, instead of what it has too often proved "an ignis fataus to lure to destruction." Independent of the invention of the safety lamp, the claims of this truly great man on society, to perpetuate his memory, are so great, that we sincerely trust such a fund will be shortly obtained, as will enable a monument to be raised, which, while it will not only assist history in carrying his name down to posterity, as one of the greatest benefactors of the luman race, will reflect credit and honour upon the parties concerned in its erection.

obtained, as will enable a monument to be raised, which, while it will not only assist history in carrying his name down to posterity, as one of the greatest beneficiors of he human race, will reflect credit and honour upon the parties occonomical in its erection.

The Government Bill, for the "better, prevention of crime in Ireland," in now before the public.

In first a "Coverion" Bill, I his not, indeed, on stringent as the of SiR. Prex.'s, in 1846; but its principles are so identical, that Lord Jours Russatz, was tanneted for its similarity, while the right hon baronet himself found it necessary to urge the House to support the present measure, as the best reparation they could yield the late Administration. We farmy believe that Lord Jours Russatz, considers this but an experiment—but steeping—attention to which he owes his accession to power. Sir George General third was a steeping—attention to which he owes his accession to power. Sir George General third was a steeping—attention to which he owes his accession to power. Sir George General third was a steeping—attention to which he owes his accession to power. Sir George General history of the steeping—attention to which he owes his accession to power. Sir George General history of the steeping—attention of the steeping—attention to the history of the steeping—attention to the head finished his introductory speech, that the flourse cover them, before he had finished his introductory speech, that the long seven them, before he had finished his introductory speech, that the construction of the steeping and the same of the proper suppression of crime. It is evident, therefore, that the Russatz, Government itself has great doubts as to the efficacy of its own bill.

The conduct of Sir R. Pexat, on Monday evening, cannot be too highly praised, for the magnanimity with which he gave his own support to the measure, and called upon others, who might be included to oppose it to do the same. The chief feature of the bill now proposed it is foundation on the discres

PROGRESS OF THE ATMOSPHERIC RAILWAY SYSTEM.

The disappearance of the entire length of tube, laid down as a full-size working model of Clarke and Varley's clastic system, near the Poplar antion of the London and Blackwall Railway, has caused a good deal of misconception in the minds of that portion of the public who have paid attention to thee who have constantly supported the locomotive, and decried the atmospheric system as impracticable; and regret to those who have ever been convinced that the latter, when carried out with well-constructed mechanism, is the only means of escape from the enormous expenses, and the imminent danger, of the present general system, and, in fact, which are inherent in it. We are happy, however, to inform our readers, that the tubes were taken up not from any mistrust, or fear of the capability of the system, but from a determination, on the part of the proprietors and patentees, regardless of expense, to rander the tube as perfect as possible, and to develope the full capabilities of the system. Our readers will recollect that, on the 21st August last, we gave a full description, with diagrams, of a new corrugated copper joint, which Messrs. Clarke and Varley had introduced, and which was found perfectly successful—allowing for any degree of expansion and contraction, and superseding the employments of every description of leather, gutta purcha, or other perishable or objectionable substance. The tubes are now again relaid with these metallic joints; and we were present during some interesting experiments, to ascertain the extent of leakage to which the stube (374 ft. long and 15 in diameter) might be subjec. The results were most sompletely satisfactory, but as several engineers entered minutely into detail, and as Mr. Gravatt is preparing a report on the subject, we shall defer any remarks of our own, hoping to give that gentleman's report entire in our next.

\*\*CUNNINGHAM AND CARTER'S PNEUMATIC RAILWAY.—This novel principle, which we fully described in the Mining Journal of Sopt. 18th tax, appears to be losing none of th The disappearance of the entire length of tube, laid down as a full-size orking model of Clarke and Varley's clastic system, near the Poplar and of the London and Blackwall Railway, has caused a good doal of

persevering movement being made; and, it only partial success answers first trial of either of these systems, it will be highly satisfactory, and lead to greater results.

SOUTH DEVON LINE.—It is indeed, as we have from the commencement observed, as regards this system, "a question of valve." Already has "Jack Froat" began to play his tricks with the valve sulve, and has given an early promise that he will have some fan with it during the ensuing winter. According to all the accounts that we have received, the trains had run with considerable regularity up to last week; and all connected with the line considered that everything seemed to indicate that all difficulty had been surmounted, and that the question had resolved itself into one of economy. It appears that nothing could be more pleasant than the easy way in which the trains pass the ugly curves at Powderham, without the risk of a locomotive shooting off the line at that place. Alast for human calculations of felicity, the first frosty night the scaling subtance was frozen to such a rigid state, that, on the first morning train arriving at Countess Weir, the valve was found to be unscaled, a vacuum could not be obtained, and the anxious and unfortunate passengers were detained full an hour. This is really a serious affair. After enormous expenditure, and the most sanguine hopes of success, almost the first day of winter retards the regularity of the trains; and, if such be the case, what must be expected through the ensuing three or four months in such an exposed and inclement situation? It is really painful to see the perserving exertions of scientific men applied to measures so worldly unsuccessful, as has been the case with this unfortunate longitudinal valve.

RAILWAY CALLS.

The following is a summary of the total amount of calls made by the several railway companies during each month of the present year. It shows the amount called up for English lines distinct from those for foreign lines; and, having been compiled with eare, may, we think, be depended

1:	1847.	Drittsh.	2007175	Foreign.		Total.
Calls payab	le in January	£4,457,968		£1,662,000		46,119,900
Ditto	February	1,454,881		80,000	Acres	1,584,681
Ditto	March	3,053,697		302,000		3,585,697
Ditto	April	4,313,489				
Ditto	May	2,935,344				
Ditto	June	2,454,756		1,550,000		4,004,756
Ditto	July	3,894,345		1,032,000		4,926,545
Ditto	August	2,222,839	****	62,000		2,284,639
Ditto	September	3,325,874		800,000		4,125,874
Ditto	October	3,365,651		92,360		3,458,011
Ditto	November	1,896,218		146,500		2,042,718
Ditto	December	2,106,709	*****	NII.		2,100,709
Total for the	year	35,541,921		\$6,480,860		849,029,781

REDUCTION OF COFFER ORES BY ELECTRICITY.-A comi been appointed by the French Government, to investigate the process of Messrs. Rivot and Phillips, for smelting by electricity, they have presented their report, which we shall be able to give in a future Number. In the mean time, we are enabled to lay before our readers some of the results of the experimenters, as described by thomselves. Having come to the conclusion, that no good results can be obtained from employing galvanic action, even in connection with iron, to obtain either copper, or lead, from the sulphurets, they proceed to state, that they were speedily convinced that, of the three agents employed in the crucible, for the reduction of the oxide of copper—the plumbago, the iron, and the electric current—the first two, and especially the iron, were alone sufficient; and numerous experiments have since proved that, by the action of iron alone, a silicate of copper, containing other bases—such as soda, lime, and exide of iron—gives up, in the course of one hour, the whole of its copper, in a state of complete purity. In the crucible were placed two, or more, bars of iron, dipping down to the bottom, and kept at the upper part by a bed of luting; the material employed was sulphuret of copper, roasted, or a mixture of exide of iron, oxide of copper, and sand, adding, as a reducing medium, soda, or even sometimes chalk. In using soda, the reduction of the oxide of copper was effected in a very short time; in about a quarter of an hour's melting, the copper produced always contained much iron, when the bars dipped to the bottom of the enciller, and, on the contrary, was always very pure, when the en appointed by the French Government, to investigate the process of plete reduction of the metal required an hour's fusion. The copper produced always contained much iron, when the bars dipped to the bottom of the crucible; and, on the contrary, was always very pure, when the bars were even but a little distance above the bottom of the crucible. The time necessary for the complete reduction of the oxide was also, more or less, short, in proportion to the size of the bars of iron employed. The general result has proved, that the action of iron bars, on a melted metallic silicate, containing 2 or 3 per cent. of copper, is powerful and rapid, and that three hours are sufficient to reduce the quantity of copper in the sing 00004 or 00005 per cent., and to obtain the copper free from iron.

A NEW LIGHT.-Mr. Isham Baggs, whose inventions we have often noticed, has just obtained a patent for a new appearant for burning the va pour of naptha, spirits of wine, or other suitable liquid. It consists of an pour of naptha, spirits of wive, or other sattable liquid. It consists of an upright cylindrical vessel, or lamp, in the interior of which is a small tube, or pipe, reaching to nearly the top of the vessel, and projecting from it at about one-third downwards—a quantity of naptha, or other spirit, is placed in a suitable receiver at a proper height to keep up the necessary pressure. A peculiar apparatus is employed for first lighting the vapour, after which the flame is regulated by a rack and pision, and the evolution of the vapour is kept up by the heat imparted to the vessel by the flame.

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PROGRESS OF FRENCH MINING INDUSTRY.

There is some talk of an important project being on foot, for the formation of an extensive port at Diuppe, with such a depth of water as will ad mit good sized vessels at any time, without reference to the tide. English mit good sized vessels at any time, without reterence to the note. English capitalists are, it is said, prepared to embark in the scheme, which its concectors expect will turn out to be very profitable. It appears that, if the port should be formed, it would be possible to bring English coal to that part of France for about 17s. a ton—at least, such is the calculation which is made. In this case, English coal could be delivered in Paris for le than it costs in London. I need not dwell on the importance of such a fact, for your readers will see at once that it would lead to an immense importation. It is, indeed, I understand, chiefly on the importation of coal that the speculators in the port count for a profitable investment for

Chal is getting more and more into favour with the French every day.

Chal is getting more and more into favour with the French every day.

A few years ago, you could scarcely meet with a single coal fire in any house in Paris—now, coal fires are no novelty. And yet the only coal which the Parisians are able to procure is both dear in price, and detestable in quality. If English coal could be brought here for a reasonable figure, I am confident that, before long, it would be generally used. But why say, "if it can be brought?" when it is perfectly clear that, with the Boulogne Railway, it can be made to reach us at no very heavy outlay.

I carnestly call the particular attention of such of your numerous readers, as are interested in the coal trade, to this most important subject. A new era is now opened to them. They have the opportunity of obtaining, if not the monopoly, at least the greater part, of this immense market of France. I say the "greater part" advisedly, although I know that at present the imports of coal from Belgium are larger than those from England. But let our coal become cheaper than it is, and it will be universally preferred to that of Belgium. As I have stated in previous letters, English coal finds its way to 38 departments; whilst that of Belgium goes only into 96. It even goes, in no inconsiderable quantities, to the department du Nord, which is close to Belgium, and which receives just one-half of all the coal imported into France from that country. This, then, is beating Belgium on its own peculiar ground. But what principally satisfies me that our coalowners could outstrip the Belgians is, first, the fact that, within the last seven years, the importations from England have increased in a greater proportion than those from Belgium, notwithstanding the check sustained from the increased duty which was placed on the export of coal from England in 1842, and continued till 1845; and next the fact of the astonishing increase which has taken place in the imports from England, and which is progressing every year; the quantity of coal imported, which was only

coal from England in 1842, and continued till 1845; and next the fact of the astonishing therease which has taken place in the imports from England, and which is progressing every year; the quantity of coal imported, which was only 37,530 tens in 1832, having risen to 304,684 tons in 1833, and 568,748 tons in 1843.

That the French themselves calculate that the opening of railways to the coast nearest England will greatly facilitate the introduction of English coal, is clear from the fact that the Journal des Chemins de Fer et des Mines, which is the only journal in France which specially occupies itself with raining matters, has taken sharm at what the Minny Journal has already said on this subject. After making an extract from one of my letters, your contemporary exhorts the French coalowners to make most active exertions to prevent the English and the Belgians from obtaining exclusive possession of the important debouché which Paris affords. It, however, admits that this is a somewhat difficult matter, now that the Boulogne and the Northern Railways are opened. In fact, there is scarcely a possibility of it; for none of their French pir, with the exception of those of Valenciennes, have railway communication to the capital; and so far from the coal of that basin fiaving any chance of keeping away the Belgian and English, it is losing ground, even in its own district, since the opening of railways has enabled Belgian coal to be introduced at a moderate rate. In 1838, for example, the department du Nord consumed 6,517,754 metrical quintals of coal from the Valenciennes basin, and only 3,580,858 from Belgiam; but, in 1845, it consumed 6,154,464 met. quin. of Belgian coal, and only 5,384,393 of that of Valenciennes.

The usual report of the market of St. Dizier states, that operations had been paralysed, in consequence of better prices being hoped for than could, at that moment, be obtained. The iron lamins of the Chatillomais furnaces was, generally speaking, very low, owing to a house at Paris having offered i

able to enter into details.

A company has just been formed, with a capital of 16,000L, with the right of increasing it to 20,000L, for leasing and working the iron-works of Toza, Finmalco, and Tenzolasca, in Corsica. The company is also to advance a sum of money, on mortgage, to Kerhoent, Puylaroque, and Company, for carrying on its iron-works. The shares in the new company are of 200L, and the greater part of them has been already subscribed for. Another company has been formed, with a capital of 44,000L, for taking an interest to that amount in the iron-works of Messrs. Kerhoent and Company, which are known as the "Forges et Fonderies d'Arles et de Corse Reunies."

The Minister of Finance has addressed a letter to the shipown The Minister of Finance has addressed a letter to the shipowners of Havre, Dunkerque, &c., in reply to their demand for the exclusion of English vessels from the conveyance of toe coal recently contracted for by the Post-office. He states, that he cannot comply with their request, unless the Chamber of Deputies will make a special rate, to cover the extra expense. He might have added, that it would be a violation of the treaty of

the Chamber of Regiand.

A meeting of the Company of the "Forges de la Bane Indre," is called for the 30th Dec, in this city. These iron-works are under the management of M. Rearli Langlois, whose name is frequently attached to that of the company.

On the 18th of December, the Navy Department will receive contracts for the supply of 20 to 30 tons of sheet-iron; and on the 21st, the War Department will require contracts for the supply of 1800 tons of coal to Algeria.

Mehemet Ali's Minister of Public Works, Kibnem Beg, has arrived in the city, on his way to England, where he goes especially to study the working and management of mines.

The newspapers mention, that Hallette's great engine manufactory, and iron-works, of Arras, have been purchased by some of the creditors for 40,000l. I presume this must be in addition to the debts—otherwise, the price is extraordinarily low for such an important establishment.

The production of salt in France this year, added to the stock on board, makes a total of 626,000 tons; the yield of preceding ones was not so great by a good deal. The shipowners engaged in the fishery trade had demanded to be allowed to obtain salt in Portugal, but the Government has

on, on the ground, that the stock in hand is suffici

BILLOYUM.—The following items form the budget of the Minister of Public Works for the Department of Mines:—Salaries of officers and travelling expenses, 45,600 fr.; salaries of engineers and foremen, office expenses, &c., 167,200 fr.; examining juries, and travelling expenses of mining pupils, 6000 fr.; subsidies to the causes de prevoyance, and recom-

mining pupils, 6000 fr.; subsidies to the caeises de prevoyance, and recompenses to persons who distinguish themselves by acts of courage and devotedness, 45,000 fr.; printing, purchases of books, plans, instruments, &c., 9000 fr.; persions, 75,000 fr.; assistance to employés, their widows and families, 5000 fr.; unforeseen expenses, 18,000 fr.—in all, 14,382/.

The coalowners of the district of Mons are in a very embarrassed state, owing to the impossibility of obtaining discounts from the failure of the bank. The consequences of these embarrassments are of such extreme gravity, that the Government is deliberating as to whether it shall, or shall not, take measures to afford the coalowners the usual facilities for procuring discount. The matter is a somewhat difficult one to decide—for, if the Government does afford relief to Mons, it cannot well refuse it to other places; and, on the other hand, if it does not, terrible commercial disasters will take place.

On 15th December, the Government will receive contracts for the supply of rails, &c., for the state railways during 1848. In 1846, the Zollverein imported about 83,297 tons of iron.

A number of medals, in gold and silver, have just been distributed, in the name of the King and the Government, to the miners who have distributished themselves in rendering assistance to their comrades in cases of danger.

The depreciation from use of rails, &c., on the state railways, is estimated

tinguished themselves in rendering assistance to their comrades in cases of danger.

The depreciation from use of rails, &c., on the state railways, is estimated at about 44,000l. for the ensuing year; and of locomotive carriages at 100,000l.—Brussels, Tuesday.

SULPHUR MINES OF AFRICA.

SULPHUR MINES OF AFRICA.

One of our readers having inquired whether the second instalment due from the Turkish Government to the Compagnis Anglo-Française des Mines de Sonfre d'Afrique had been paid, we requested our "Paris Correspondent" to make inquiry on the subject. Not being able to ascertain the address of the managing directors of the company, our correspondent deemed it right to apply to the Minister of Foreign Affairs; and he has forwarded to us a copy of his letter and of the Minister's reply, of which we publish translations, in the belief that they may be interesting to many of our readers. Our correspondent's letter to the Minister was as follows:

r to the Minister was as follows:—
"Mossicus La Ministers.—Some months ago, a notification appeared in the Mosticus the effect, that your Excellency had produced from the Government of Tarkey payent of a portion of the sum which that Government over to the Compagnie det Ministry Souther & Afrique. I have the homent to pray your Excellency, on behalf of a foreign archiother, to be kind enough to inform all the second portion of that sum has been all the many that all the second portion of that sum has been that —and, in that case, perhaps your Excellency will condescend to tell me the name of address of the person who has been charged to distribute it to the shaveholders.

"I have the homent to be, Monsion Ministre, &c."

The reply of the French Minister of Foreign Affairs was as follows:

The reply of the French Minister of Foreign Affairs was as follows:

"Ministry of Foreign Affairs, Paris, Nov. 27, 1847.

"Sis,—In reply to the desire, expressed in the letter which you wrote me on the 200 of this month, I have the honour to inform you, that the greater part of the funds, forming the indemnity allotted by the Turkish Government to the Compagned des Mines of Soufre d'Afrique, is at present deposited at the Casias de Consignations, which is charged to pay them to the persons interested, after they shall have fulfilled the formalites prescribed by the regulations of the said Casias. The same destination will be given to the balance of this indemnity, as soon as the Consul-General of France at Trepol shall have furwarded it to my department.

"Accept, Sir, &c., (Signed) Guitor."

COLD-DRAWN GALVANISED IRON TUBES.—Messrs. Thomas, Stretch and Co., of Warrington, have patented a new process for forming iron tubes for gas, water, steam, electric wires, bell tubes, &c., and which are applicable to all purposes for which iron tubes can be required. They are ex trouch ight, notwithstanding their great strongth—rendering them most important for exportation; and it is evident they may be employed in factories and all public buildings, where tubes are required, without loading the floors, as is the case with heavy cast-iron tubes as now used. They are galvanised inside and out—thus rendering them exceedingly durable; and, if covered with a peculiar kind of mustic, are rendered indestructible, even when placed in the earth. They are thus formed:—A sheet of galvanised sheet-from, having the edges first turned up into the form of a clusp, is bent circularly to a tube; they are then passed cold-drawn on a mandril through a die-plate, closely uniting the clasped edges of the metal; and the mandril being withdrawn, the joint of the tube is thoroughly soldered or bruzed. Notwithstanding the iron is folded together with great pressure at the clasp, completely compressing it—its strongth is by no means weakened; a tube of 1½ in. in interior diameter, and 023 in. in thickness, was proved by an hydraudic press—immediately after soldering, supporting 240 lbs. on the inch with perfect safety, and only opened under a pressure of 330 lbs. A second tube, soldered some days, began to open at 600 lbs. to the inch—and this without fracture or deformity of the iron, but only from the want of the tenacity in the solder. We understand, no tube is sent out without being proved to 300 lbs. per inch; and, for lightness and economy, they certainly appear to be unexceptionable. tremely light, notwithstanding their great strength-rendering them mos

IMPROVEMENTS IN INON BRAMS AND GIRDERS.—Since the fall of the girder-bridge over the Dee, on the Chester and Holyhead Railway, and numerous other similar casualties, during the past year, with the valuable experiments made by Eaton, Hodgkinson, Fairbairn, and other eminen nasters, the comparative advantages of cast and wrought-iron, for the ironmasters, the comparative advantages of cast and wrought-iron, for the purpose of constructing girder-bridges and other structures, requiring solidity and strength, has become a question of the utmost importance. Among the various plans which have lately been before the public, for the better and more secure arrangement of strengthening iron girders, is one for which a patent has been obtained by a Mr. Rielder, whose partners are Messrs. Baker and Son, of Stangate, Lambeth. In this plan, the use of cast-iron alone is avoided, as also of cast-iron strengthened with wrought-iron tension bolts, either screwed, or fitted into dove-tailed sockets, as proposed by Mr. Bramah many years since, and other somewhat similar plans by other engineers since. Mr. Fielder's inventions are two-fold—one being the use of wrought-iron only, secured by having plates, substantially rivetted together, with top and bottom flanges of welded iron, secured by angle iron and coupling plates. This girder has been repeatedly subjected to a proof of 150 tons; and the same results, as to deflection, took place on every occasion with 31 ft. 4 in, between the supports. The tension strength of yrought-iron being 25 to 30 tons to the inch, bearing five-sixths of that weight without loss of elasticity, the patentee proposes to add to the 150 tons one-fifth—and thus, assuming 180 tons as required to break the girder, 90 tons may be considered the fair working weight. This, however, is probably by no means the extent of the power of this girder—the testing powers of the machine used by the patentee would not go beyond 150 tons; but that giving a datum as he thought sufficiently high, he took that as the assumed power, without injury to the metal. Passing over a girder of a somewhat similar construction, but not so economical as the previous one, we come to an experiment on compound girders, formed of wrought and cast-iron together; the first is a case of an old cast-iron one already broken—to the bottom flange of which a piece of wrought-iron, 8 i purpose of constructing girder-bridges and other structures, requiring sowrought-fron, 8 inch by \$\frac{1}{4}\$ inch, was rivetted; this was now proved to \$2\frac{1}{2}\$ tons which injury. Another piece, 8 inches by \$\frac{1}{4}\$ inch was added, when the girder bore a strain of \$5\frac{1}{2}\$ tons, without loss of elasticity. The next experiment was on a cast-iron girder, which bore 15 tons without injury; with \$1\frac{1}{2}\$ tons, a permanent set took place of \$\frac{1}{4}\$ the of an inch—the total deflexion having \$\frac{1}{4}\$ this. A wrought-iron bottom flange, 6 inches by \$\frac{3}{4}\$ inch, was then attached; and this compound girder was then proved to 30 tons with the same deflection as previously took place with \$1\frac{1}{2}\$ tons, but without injury. The last two girders described were made, for the purpose of still further establishing the data contained in the last experiment—one which, according to the formula, would possess \$3\frac{1}{2}\$ tons working power; and the other \$2\frac{1}{2}\$ tons were loaded respectively to 45 and 40 tons—the deflection in the first case being \$\frac{1}{2}\$ the 5 of an inch. The patentee considers that the wroughtion girders have produced the most important results with regard to strength, and are, of course, highly superior in cases where much vibration exists; yet the compound girders, appearing more suitable to general use. The pamphlet before us is embellished with large and well-finished descriptive plates; and the facts it contains are well worthy of the attention of the architect and engineer.

# Original Correspondence.

MINING IN GREAT ORMESHEAD, LLANDIDNO.

MINING IN GREAT ORMESHEAD, ILANDIDNO.

Sin,—I beg to remark on the "Traveller's" letter, in your Journal of the 23d Oct., in which he stated, that "the workings have yielded great manthies of rich copper ores—from moderate calculation, worth from 00,000l. to 250,000l.—leaving to the adventurers, as may be fairly assumed, a fair profit on the capital invested." The truth is, that no capital are ever invested for working the Tudno and Tymweed, or old and new nines, in the memory of the present generation. The profits to the lease-older and lords in—

older and lords in—
Tadno Mine, since the year 1807 ... £200,000—average, £5000 per assum.

Tynycoed Mine ditto ... 100,000—average, £2500 per assum to outlay.

Tynycoed Mine ditto 1837 ... 80,000—after an outlay of £600 only; £4000 W. W.

MINING IN CORNWALL.

Siz.—In my last, I mentioned mining on the north champion lode, east from the flat ground between the Mount's Bay and St. Ives; the extens mentioned to Herland Mines is about six miles. I will, therefore, now have a start from this line eastward, on a champion lode, two miles south from the one before described, containing the Wheal Alfred, and other mines. Wheal Fortune is the first to the west; to the east is Wheal Prosper, Trevartin Downs, Kistal, Penberthy, Crofts, Wheal Virgin, Gurlin, and other small mines—east again, to join the Binner Downs and Wheal Treasury mines, mentioned in my last, including Wheal Friendship. This run of mines has been extensively worked, yielding very large returns in all their workings, and considerable profits in former working; but most of them have deckned in depth. Wheal Fortune (the western mine), partly worked in the clay-slate, and partly in the granite, has been the richest, and has been worked to the greatest depth. The principal produce of this lode throughout has been copper; but all the mines, for six miles in length, have yielded a proportion of tin, with small quantities of lead, containing 14 ozs. silver per ton of lead. This run of mines will vary in depth from 100 to 200 fms. There are several cross-courses, and channels of clvans crossing this channel, on, or adjoining, which the richest bunches of ore have been found.

About a mile and a half to the south of the lode before spoken of, is MINING IN CORNWALL

14 ozs. silver per ton of leau. This run or allocates, and channels of clvans crossing this channel, on, or adjoining, which the richest bunches of ore have been found.

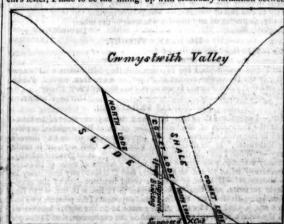
About a mile and a half to the south of the fode before spoken of, is another champion lode, running east from the line, or flat ground, adjoining to, and, in some instances, connected with, it in places, are the several mines of Wheal Darlington—to the west the Maraxion Mines, Owen Vean, Halamining, Retallock, Wheal Neptune, Trenew Consols. This line of lodes, running to the cast about five miles, runs again into the granite. These mines have been worked from 100 fms. to 150 fms. deep, yielding large returns—most of which, in former workings, have yielded rich and profitable returns. The district herein mentioned is from five to six miles from west to east, and above four miles wide, containing a great many more mines than I have enumerated, and, with very few exceptions, have been profitably worked to the depth of 100 fms.—under this depth, but very little, if any, profitable returns have been made. I mention this, to show how much the mines in the elay-slate assisted in their deposits, in a mineral point of view, by cross-courses, elvans, &c., differ from the great mines—having a still greater variety of cross-courses, elvans, &c., lying on and near to the granite: which mines, in many instances, are profitably worked to 250 fms., and some to a greater depth. The country before alluded to has been a rich and easily worked one, and has a great deal of untried ground, and, I should imagine, many lodes undiscovered, which may pay well by working at moderate depths; but, generally speaking, deep mines in it cannot be looked forward to with a fair chance of remuneration for capital so laid out. So that it will appear, that one district, differing so much from another, makes anything like a general rule difficult to arrive at. Therefore, the first object of the miner in this, or in any other country, should be, to look at its geological features—s

Dec. 2.

MINING IN CARDIGANSHIRE.

Sir,—I have read, with some care, in your valuable Journal, several letters on mining in different parts of the country, and my attention was particularly drawn to one signed "Cardigensis," calling on the writer, "Traveller," in his letters relating to the mines of Cardiganshire, to peruse a forthcoming translation of a "French letter on mining," before he estimated the future wealth anticipated from the deep working of mines in that county. In looking through "Traveller's" letter, I cannot discover that he would draw attention to the future prospects of the deep, or shallow, workings of the mines in that county. If an inducement he exhibited, I should imagine it to be in favour of greater capital. The writer, perhaps, wishes to detract attention from mining in Cardiganshire, in order to draw attention to some speculation which he has at present in hand, or intends having, in France. It is all very well to talk of foreign mining but the result of carrying out these schemes in practice for the last 20 years, should, I think, bring parties reading the French letter, when translated to a consideration, and a perusal of a series of letters and reports of foreign mining within the last 20 years, which gave such facility to raising 15,000,000.000. or 20,000,000. sterling of English capital, the greater part of which has found a grave in these countries, and numbers of our English subjects, employed in the conducting of them, brought to a premature end, leaving widows and families destitute to lament their loss, and the few remaining suffered severely from the unhealthy climate. In addition to this, many gentlemen speculators, flushed with the flourishing reports of foreign mining, embarked their all, and many have been ruined. That mines near the Equator may be a little richer in their produce, I do not mean to deny; still, as a rule, it will not hold good, that it is a better "mining country," and it is not a question with me, considering the great facilities connected with mining, MINING IN CARDIGANSHIRE.

MINING IN CARDIGANSHIRE. Sin,—Permit me to say a few words in reply to "Cymro's" straightforward and, I believe, honest letter on Cwmystwith Mine. I will just give a transverse section of the two lodes, which, I was given to understand, existed in that mine, and has been productive in workings above the slide. The 30 fms, broad of clay-slate, mentioned in your correspondent's letter, I take to be the filling up with secondary formation between



the hanging wall side of the lode and the lode itself—the heave having taking place to the north, carrying with it a part of the Comet lode (the lost part), and after deposits, forming the flat of ore mentioned, leaving the hanging-wall side of the lode, after the heave, 30 fms. to the south of the lode—this opening being afterwards filled up with what may be more

properly called the schistus or shale. I beg, therefore, to suggest, for his consideration, whether the lode found under the slide may not be the morth lode, instead of the Comet, as he calls it; and whether the Comet lode is not 25 fms. to the south, on a base line from a shaft, if sunk perpendicular 20 fms. from the junction of the Comet lode, with the slide leaving when cut 2 or 3 fms. of back to the slide. If I am right, the transverse section will be something like the above diagram, when, on the spot, I calculated the heave to have been more than "Cymro" describes it to be; if so, both the lodes would, according to my notion, have been south from the bottom of the junction of the Comet lode with the slide. I merely give these particulars, to show the data on which my estimate of the expensive trial mentioned was founded, and to show that I cannot at present be reconciled to any other belief, but a great heave, and the lode supposed to be the "Comet," under the slide, is really not it, but some other.— Thaveller: December 3.

#### MARSH'S TEST FOR ARSENIC.

MARSH'S TEST FOR ARSENIC.

Str.,—While no one can more sincerely rejoice than myself at the humble tribute of 20% a year being awarded to the widow of James Marsh, I must contess, that I esteem his method of detecting arrenic—said to do so to the one-half millionth part of a grain! are exceedingly equivocal, if not entirely worthless, secondary and subsidiary at the best. My reasons are—that the zinc employed is rarely free from arsenic, and the hydrochloric acid usually contains it. Besides, he is an acute chemist indeed, who will venture to adjudge the stain deposited on the porcelain surface, to be, in very deed, arsenic, and not antimony? True, it has been recommended to bring in contact with it, a funnel charged with steam to develope the oxide, to be subsequently followed by the silver test! The history of Madame Lafrage's case should teach us caution in tampering with such serious matters; and the case of the woman who was executed at Glasgow on a supposed case of poisoning by Orium, the only test applied for the detection of which being permariate of iron! when it was subsequently proved, that the saliva of the mouth would produce a similar indication, should confirm the hesitation!! For my own part, I shall have nothing to do with analyses in cases of poisoning, as long as the punishment of DEATH remains a blot on the statute-book.

Portland-place, Hull, Nov. 29.—

THE OXIDATION OF IRON.

#### THE OXIDATION OF IRON.

Sir,—In his remarks on the oxidation of iron, Mr. Spencer, of Liverpool, seems to have overlooked two powerfully operating causes—viz.: the actinism of the sunbeams, and the generation of nitrous acid in the thunderstorm. I remember to have remarked, on the summit of the leaning Tower of Pisa, that the circular iron rail was most corroded where longest exposed to the solar rays. It may be added, that the iron cross planted on the top of Mount Rosa, among the Alps of Switzerland, remained uncorroded after a lapse of two or three years—an elevation above the storm cloud.—J. Murray: Portland-place, Hull, Nov. 29.

#### GEOLOGY

GEOLOGY.

SIR,—The remarks which I had tendered to the public, on the subject of geological phenomena, were facts, irrespective of all theory. It will be remembered, that I was rudely assailed by crude assumptions and speculative fancies—nay, even assertions, as in the matter of granite said to have been discovered in Guernsey, with onganic nemains, but which I proved on the spot where it was said to have been found, to be entirely false; these circumstances induced me to abandon the task I had proposed for myself. It cannot be doubted, that romantic fancies and visionary assumptions have obscured the intellect of modern geologists, and speculation has ever been the bane of sober reason and legitimate science. Are not the creations and cataclysms of Mr. Charles Lyell, the ice boats of Sir R. I. Murchison, the glacial absurdities of Agassiz, and the whirligig fancies of Buckland, like Ossian's ghosts—"Dim forms of uncircumscribed shade?"—and do not the sober realities of truth laugh these fancies to scorn? Can we be surprised that such a flimsy tissue of erroneous dogmatism, as is exhibited in that silly and frivolous romance, the Vestiges of Creation, should emanate from such a chaos of folly?—a plaything of tinsel and trumpery—an ad captandum toy for superficial thinkers and baby minds. Verily, Messieurs the geologists have themselves to blame for originating such tomfooleries as those of which the Vestiges of Creation is an example—a spurious thing grounded on an assumption of which there is not even the "shadow of a shade" of evidence in the matter of fact, in reference to the phenomena of geology. Geologists will be cosmogonists—him ille talore. They have adventured on sacred ground—"Fools will rush in where angels fear to tread." What marved that they have done despite to truth, and marred the features of a beautiful and wondrous science; and that so many votaries have, in consequence, revolted from the ranks of science, embrucing geology. With the primary act of creation, legitimate geology has nothing to

## FLOATAGE OF SUBMERGED BODIES, &c.

## THE SPRAY PUMP.

THE SPRAY PUMP.

Sirk.—There is nothing surprising in the force of winds extracted by Mr Blewitt, if we consider that high winds press with a force from 10 lbs. to 30 lbs. per equare foot, and that the laws of accelerated motion are, in some degree, brought to bear upon the water, the force of the wind being constant on every point of the line of its direction along the lake—so that this immense power becomes aggravated, as the increasing elevation of the water exposes it more vertically to the wind's motion. Were Mr. Blewitt to cover the whole surface of 10 miles, and apply the impetus merely to one end of the lake, he would have to raise the wind most effectually, to propagate any impulse whatever to the other.

Coleford, Nov. 30.

Mr. RYAN'S THEORY.

MR. RYAN'S THEORY. Siz.—It having been attempted by one or two of your correspondents to discredit the accuracy of my comparison betwixt the Staffordshire and Dean Forest coal-fields, I beg to state, that the Staffordshire coal is now selling in the Gloucester market at 5a per ton more than the best Forest coal, and that this difference is not more than the ordinary average.

## Coleford, Nov. 30.

JONES'S GAS EXHAUSTER.

Siz.—I apprehend there must be some errors in your report of the meeting of the Institution of Mechanical Engineers, at Birmingham, as published in last week's Journal. Take, for instance, the article on "Jones's Gas Exhauster;" in the discussion of which, Mr. Clift says, or is made to say—"When I see that the best-constructed fan, at its greatest velocity, will only maintain a density of air equal to a column of water of 10 in., or a pressure of about 15 ozs. on the square inch:" is there any inaccuracy in this statement?—If 10 in. of water be equal to about \( \frac{1}{2}\) the of the atmospheric pressure, and this force be equal to 15 lbs. x 16 ozs. = 240 lbs., which, being divided by 40 (the fractional exponent of fan pressure), we obtain 6 ozs. instead of 15 ozs.! This cannot be an oversight; because we find the same methodical error repeated in the expression, that 75 ozs. per aquare inch is represented as the clasticity of air under an aqueous column of 50 in., or \( \frac{1}{12}\) this.—8 nearly; and \( \frac{1}{12}\) this = 30 ozs., instead of 75 ozs., per aquare inch! Then, again, "with a pressure of 15 in. of water, or 22\( \frac{1}{2}\) ozs. on the aquare inch," which ought to be 396 in. \( \frac{1}{2}\) 15 in. = 26 nearly; and 240 ozs. \( \frac{1}{2}\) 6 = 9 ozs. pressure.

So much for Mr. Clift's system of calculation—and now for Mr. Buckle's JONES'S GAS EXHAUSTER.

statements; and here it may be said that, if this gentleman's report on "the fan blast" be no more accurate than the statements of his argument with Mr. Clift, the public will not lose by the non-publication of Mr. Buckle's paper at least. Mr. Buckle objects to Mr. Clift's, "that the blast necessary to furnish two air furnaces, producing 120 tons of pig-iron per week, was 11,978 cubic feet per minute, requiring a blast cylinder, 90 in. diameter, with 8-ft. stroke;" and shall I say, 15 strokes per minute, the least speed of such a machine. These data will give 857,230 cubic feet of air per ton of iron smelted! Now, what is the real fact? It is well ascertained, that "the hot-blast" reduces the quantity, or volume, of air, required in cold-blast smelting, about one-third per ton of iron smelted; and, as I am acquainted with several founderies where hot and cold blast are used respectively. I will assert as fact, that a blowing cylinder, of 5 ft. diameter, 8-ft. stroke, 22\frac{1}{2}\$ strokes per minute, is more than sufficient to blow three full-sized stacks, making 166 tons of iron per week, of six days and nine hours, besides allowing one hour each day for cessation of blast, during the act of "tapping;" and that 490,000 cubic feet of cold blast is found more than sufficient to produce the ton of pig-iron, which, for the hot-blast, would be in excess by \$\frac{1}{2}\$ such as \$\frac{1}{

#### ON STEAM-PRESSURE GAUGES.

Barnabury Park, London, Nov. 29.

ON STEAM-PRESSURE GAUGES.

Siz.,—At present much attention is being directed to these instruments, and two of different construction are before the public—the one an improvement on the Mariotte gauge, by Mr. Baker, of Hatton-garden; and the other an invention patented by Mr. Sidney Smith, of Nottingham. These gauges have been, within the last few days, fixed at the Polytechnic Institution, in order to test their relative merits, before entering into an account of the experiments. Most of your readersare, no doubt, coursenant with the fact, that the two gauges mostly in use amongst engineers are the y gauge, and a gauge acting by the compression exerted on a column of air. This gauge owes its origin to a law discovered by Dr. Boyle, in 1662, but which was afterwards re-discovered by Mariotte, apparently without any knowledge of the discovery of his predecessor. In 1825, Prof. Oersted instituted a most elaborate course of experiments, which proved the law of the compression of gases to be general, and the gauge mostly in use at the present day is one which owes its origin to the learned professor's investigations, but known by the name of the Mariotte gauge, and, when used with care, Imay add, a most invaluable instrument. The first I shall direct attention to, now in action at the Polytechnic, is an improvement in the Mariotte gauge, by an alteration in the arrangement of the index, which prevents the necessity of constantly adding to the indicated results, the ocurrence of the column of mercury, which is known to be 1lb. for every 2 in.; this has often led to error, when the true construction of the gauge has not been understood; this gauge, when tested against the long ty gauge affixed to the boiler at the Institution, was found to register correct, the amount of error being less than ½ lb. to the square inch the valves were loaded; but, in the present instance, the other works of the valves were loaded; but, in the present instance, the other works of this vessel are 2½ in. G

# BAILWAY TRAIN SIGNALS.

KAILWAI TRAIN SIGNALS.

Sig.—I rejoice to find, that the public interest has been at last awakened, to the necessity of having a means of communicating between passengers, guards, and engine-drivers, upon railways; and I hope that you will assign to me a brief space in your Journal, to make a few remarks respecting the two most prominent plans now before the public—namely, that of effecting the object by means of gulusnism, and that by means of lamps and flags. In the month of August, 1845, I went to considerable expense, in offecting the object by means of galvanism, and that by means of lamps and flags. In the month of August, 1845, I west to considerable expense, in having a model train, furnished with a means of communication by electricity, and using the safety chains, with intermediate wires, as my circuit— (the using of the safety chains is the grand feature in Messra. Brett and Little's, Mr. Allen's, and a host of other's inventions.) I caused an alarum to ring, the dial to give signals, and the explosion of a percussion cap, as signals of danger, &c. I then thought the great problem was actually and fairly solved, and, of course, in my youthful ambition, communicated my discovery to the Editor of an influential journal, who gave me to understand, in his "Notices to Correspondents," in August, 1845, that my plan was manifestly impracticable; but a few weeks ago, when Messra. Brett and Little repeated the same experiments upon the Brighton line, the same journal proclaims to the world, that those gentlemen had succeeded in solving the great problem; and, as a finele, I was soon, after my abovementioned adventures, informed, that the application of electricity for railway train signals was a patent right; and my railway train was forthwith detached, and the tiny carriages were (except one, which I have kept as a relic) distributed amongst some of my friends, who, no doubt, were satisfied with the result of my misadventure. The above facts I am ready to prove, should any one feel the least annoyad by them.

Again, I find that Mr. Connell, of the Great Northern Railway, has

submitted a plan, of communicating between the guards and engine-drivers, to the Railway Commissioners, who, it is stated, have approved of it. Now, Sir, I wrote to the said Commissioners as early as the 28th of June last, urging the adoption of flags and lights, as the means of effecting the purpose, and suggested, also, that the guard in the foremost part of the train should keep a look out, and that he was to call the attention of the driver with a powerful whistle, &c. The same description is applicable to Mr. Connell's plan, which, however, has met the approval of the Commissioners; but, in reply to my communication, they said—"That they (the commissioners) had no power to compel the adoption of anything of the kind upon any railway, and that an application upon my part, to some railway company, would be more likely to answer the end I had in view." I wrote there and then to the chairman of a railway company; but I confess, though I did not expect a satisfactory reply, I did hope for an acknowledgment of its receipt, but with which I have not yet been favoured. Now, Sir, I do not wish to monopolise all the merit in connection with the above subject, but I hope that the public will grant, that I have contributed, to some extent, through the medium of the public press, to "Acep the great signal league alive."

OWER ROWLAND,

Mecklenburgh-square, Nov. 29.

COMMUNICATION BETWEEN GUARDS AND ENGINE-DRIVERS.

the great signal teague alive."

Mechlenburgh-square, Nov. 29.

COMMUNICATION BETWEEN GUARDS AND ENGINE-DRIVERS.

Six,—Seeing in your note to Measrs. Brett and Little's letter, contained in your last Journal, that you conceive the question of priority settled (which it certainly is, in respect to the reading of my paper at Birmingham, at Jeast), inasmuch as a description of their plan is contained in theolock forwarded to you, and which, as Mr. Brett informs me, was printed in September last, I trust you will allow me space enough to give some explanation of the matter. It will be seen, by reference to my letter contained in your Number for 20th Nov, that two days elapsed between the date of it, and that of the posteript, during which time I called upon Measrs. Brett and Little, for the purpose of talking the subject over, as I was very unwilling to make any suspicion public, which might be found groundless. What could possibly be easier, han for Mr. Little, on that occasion, to show me the book sent to you? It is especially remarkable, as, being in the habit of plain speaking, I informed him of my suspicion, as I had seen no account of their plan until after my paper had been read. But what did he do? He referred me to the deposit made in January with the Attorney-General, and said, I should there find they had patented every application of a certain principle; and, further, that they should oppose any one making use of the plan, including, as he said, an other person who had obtained a patent for the same thing. Knowing, then, as I did, from having read their specification, which contains not a single word on train alarms, that all this was perfect nonsense, and which I told him—was my conclusion unreasonable—viz: that my suspicion was just? I even now believe that my paper must have brought the subject again before them, and was the cause of the experiment being made. Notwithstanding all his, on the evening of the 24th ult, when at the Society of Arts, upon my observing to Messra. Brett and Little that I was COMMUNICATION BETWEEN GUARDS AND ENGINE-DRIVERS

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Argyll-street, Dec. 2.

RAILWAY LABOURERS.

Sta.—Observing by your Journal, and other periodicals, the fact of the discharge of some thousands of "navvies," and that, in consequence, crime is on the increase, allow me to suggest, as a preventive against the men becoming burdensome, that they should be at liberty to enter regiments of engineers, to be disciplined by the spring. Then let them, or such as may not be wanted here, be sent to the colonies to make roads, railroads, &c.; and their rations, in the first instance, be provided by Government. Such as consent might afterwards be located along the lines in wooden houses, to be built in the Canadian style. Women to be sent out as emigrants, or free settlers, and married men to take their wives; and, on being settled, to be charged a trifling rent, sufficient to pay off the amount expended in (say) 20 years; 200,000 persons might be annually sent out, instead of about 20,000, as at present, which, while it would help to clear this swarming hive, would increase the population, and produce plenty and success in our widely-extended colonial territories.

Penzance, Nov. 11.

ADCOCK'S SPRAY PUMP.

Penzance, Nov. 11.

ADCOCK'S SPRAY PUMP.

Sta,—"In reference to the spray pump, I bag to inquire, what is the object, and wfint will be the effect, of expanding the area of the upcast-pipes as they approach the surface, in order to reduce the velocity of the effluent current?" Such, Sir, is the question of Mr. David Mushet, in your last publication, and I reply to it thus:—By the "lass of gravitation," it is well-known that, if a body be allowed to fall freely through space, it will descend through is 1-12th feet in the first second of time; and it will, at the end of that second, have acquired a velocity which, if continued uniformly, would take it through 31-6th feet in the next second, the body proceeded with an accelerating velocity—commencing from a state of rest, and terrainating with a speed of 32-1-6th feet per second—50, also, by the same laws, it will not move uniformly velocity, and, at the end of that second, will be moving with the speed of 6th feet; at the end of a third samilar interval of time, with a speed of 9th feet per second. Hence, it will be perceived that, if the speed of time, with a speed of 9th feet per second. Hence, it will be perceived that, if the speed of the moving body at the commencement, and at the end of each second, be added together, and be divided by 2, to obtain the mean, the space fallen through, in every consecutive second, will be known:—

First second, 0+32 1-6th =16 1-12th feet. Second ditto, 32 1-6th+641 = 481 feet. Third ditto, 641+961 80 5-19th feet.

That is, in the first second, the space passed through will be 16 1-19th fact; in the second, 48½ feet; and in the third, 80 5-12th feet. Again, if the numbers thus obtained be added together, the entire space fallen through at the end of the several consecutive seconds will be indexed. In Illustration of this:—Space fallen through at the end of the first second, 16 1-12th feet; at the end of the second, 16 1-12th +48½ — 64½ feet; and at the end of the third, 64½+80 5-12th -144 feet.

There is, however, a much simpler mode of arriving at this required information; it is this:—That, in bolies deconding freely by their own weight, the velocities are at the times, and the spaces passed through as the squares of the times: therefore, if the time,

By reflecting on this law of Nature, inseresty, it will be percel drops of water, in the aposat-plps, be put in motion with the ratche second column of the table, and the power which gave the second column of the table, and the power which gave the second of the column of the table, and the power with first have accorded to Ill be perceived, that if the balls, or with the rates of speed expressed in the gave them motion be instantane-oun the velocities they have acquired,

expressed in the third column of the table.

In my patented invention, the spray pump, I avail myself of this law, by so proportioning the upcast-pipe at the bottom of the mine—duly considered with relatence to the friction of the efficient of the post-pipe as it approaches the surface, that the balls, or drops, of water may not absorb power that is not wanted by them, but continue their nuward, and gradually ascending, motion, until they deliver themselves at the top, by the impetus that had been imparted to them.

In addition to the preceding, two other important reasons may be assigned for expanding, upwards, the upcast-pipe:—1. The gradual reduction of the weight of the superta.

THE PERSON NAMED IN

solum, of water in the apeast-pipe, per square inch; and, 2. Re-compressed air that portion of power which, in the blast-cylinder, was at. In cluddition of the first of flees, it may be remarked, that, peast-pipe being of the uniform area, 113 inches, the weight or pres-ambent column of water, dispersed in drops throughout the length of evered by me in the Mining Journal of the 15th hat, 2 be. per aquare s, the apeast-pipe been expanded gradually from 113 inches at the at the top, the superincumbent pressure, in consequence of the water a large area, would have been 13 lb. only.

For. 113+926 1691 average area.

And, 113 in. × 9 lbs. = 13 lb.

represent the correctness of my statements, made in that Journal, is established—that, and the pipes been proportioned for the experiment only, a greater body of water—it the ratio of 1 jl. to 2 lbs.—would have been suspended in the upcast-pipe at one may and, hence, a greater body of water—it was the proportion of the upcast-pipe at one may an enter of the superiment of time. Further, it will be observed that, if the upcast pipe were made inform area, as was the case during the experiments at Lianhiddel, and the pressure required to finder to case during the experiments at Lianhiddel, and the pressure required to the superiment to the pressure required to the obtained from allowing the experiment at Lianhiddel, and the pressure required to the superiment of the constant of the superiment of the superiment of the superiment of the constant of the superiment of the

#### X ADCOCK'S SPRAY PUMP.

ADCOCK'S SPRAY PUMP.

Siz.—The "spray pump" has excited much discussion lately in your Journal, but to sittle purpose. I am always for coming to business; and, therefore, would suggest, as the most likely courier to extite disputes about the merits and demerits of the spray pump.

1. To publish, in your Journal, a list of the several mines where the spray pump has seen adopted, spectifying dates, Sc.

2. Optes of testimonials, with any details demonstrating its practical utility.

3. A summary of remarks on these several orders, so executed, including, in particular, notice of the iongest period that any such apray pump has been continuously at work, as all possible, to refitte the notion has it is necessarily subject to constant repair.

By your paper of the listh Scht., we are informed, the apray pump was "pat down at remberton Pit, near Wigais, which was daily in operation many weeks—doing its duty might be a subject of the supplied also at the subject of the pray pump was not to such a subject of the pray pump, in your paper of the subject of the subj

MR. MUSHET-MR. RADLEY-SIR T. B. LETHBRIDGE. X

Mr. MUSHET—Mr. RADLEY—Sir T. B. LETHBRIDGE.

Sir,—I trust you will allow me briefly to exonerate myself from Mr. Radley's apersions. Sir T. Lethbridge wrote to me upon the 6th of October, and incidentally mentioned Mr. Radley as follows:—"I have an offer from a Mr. Radley, in London, to smelt, at my own works, my rich ore, and I shall be meltined to try him. "This is all that ever passed from Sir T. Lethbridge to use respecting Mr. Radley, or his processes. In my reply, I stated, that I did not think Mr. Radley could do any good, either for himself, or for Sir Thomas, at Lothbrake. I think so still, and when Sir Thomas formerly proposed to me that I should aperfurend a work for him at Landbrough, or Lethbroke, I very candidly bold him, that the stitution was a bad one; and that I did not feel that I should agree with the still be rection of an iron-works at Lothbroke. I very candidly bold him, that the stitution was a bad one; and that I did not feel that I should agree be he had for any reasonable cost at Lothbroke, nor we there any workmen upon the spot compotent to perform the various duties which would have to be failfilled. Less cerupalous, to, is lift. Radley, who new openly confisces that he has seen my confidential communication to Sir Thomas Lethbridge—while I have never, either in words or in writing, received one is lost in finite minimum from Sir Thomas Lethbridge bearing the elightees: all usion to any process of Mr. Radley's, except the above quoisition, which, I submit, is no breach of confidence spon the part of Sir Thomas Lethbridge towards Mr. Radley direct, with an assurance, on my part, that with me his secret was as asso as with himself—I having nothing whatever to do with any disprite between Mr. Radley and Sir T. Lethbridge, and Mr. Radley is welcome to the information he has obtained by a perusal of my confidential interes to Sir T. Lethbridge. If Mr. Radley has ready seen a plan of my confidential interes to Sir T. Lethbridge. If Mr. Radley has ready seen a plan of my confidential inter

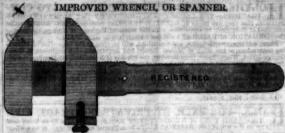
MR. RADLEY AND THE LOTHBROKE IRON-WORKS. X

Ms. RADLEY AND THE LOTHBROKE IRON-WORKS.

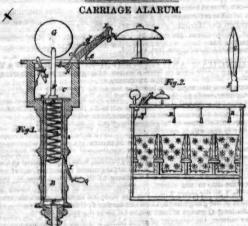
We have received a long communication from Ms. Radley on the sulficet of his connection with the Lothbroke Fron-Works, denied in a short letter, published in the Mining Journal of the John als, from Sir T. B. Lethbridge, Bart, the between. We are corry to be obliged to decline inserting the communication entire, containing as it does so many observations of a private nature, and, moreover, a large amount of parsonal remark, tokally irrelevant to the question. It is, however, doubtless apparent, from Mr. Radley's estamement, that he had been engaged by Sir T. Lethbridge—had received a cheque to pay his expenses—and had a care the About July last, is advertiseness apparent from Mr. Radley's astematic. The facts are briefly as follows:—About July last, is advertiseness apparent of in the Missing Journal, for the sake of some thousands of tons of hamatile, with reference to a Mr. Woolesott. Encounting that to be the name of Sir Thomas Chibridge's stoward, he concileded it was on behalf of the baronet, and addressed a note to Mr. Woolesoft accordingly. He received a reply from Sir Thomas, of which the following is an extract:—"The particularly requests the communication of Mr. Radley's method of making from said used —and, in a forritor communication of Mr. Radley is method of making from said used —and, in a forritor communication, what I want is, to see my ore smelled on the spot, or sold to some person at a distance who would smelt it. If you can add me in this affirit, you may better inforce me Alley one pleas—they will not be oppound me—and, if i so the probability of their success, a will help to carry them out." Mr. Radley continued to refuse to combine his secret, and much further correspondence resued, too long for fazertion—antifice if to say, he received a cheque to pay his expenses to Sandhill Park and beak to London; and, on the 13th of Geotobes, had an interview with the baronet, which lasted from half-past to to 2. Further interviews and correspondence took pl

TENTS ON STREETH OF CAST-IRON. - Some interesting and important experiments were made at the Craue Foundry in July and Aug-last, on the selative strength of cast-iron, chilled and unchilled. Two bars, run from the same pot of metal, were employed; the unchilled har was in. in width at the top edge, I in. at bottom, I in. deep, and 4 ft. long; the area of the cross section was I-125, and width between supports 3 ft. 10 in. The shilled bar being run on a piece of cold iron, had contracted that of an inch less in width than the other on the bottom face, being, in other respects, precisely similar; the sectional area was thus re-duced to 1-078, and the weight was only 12 lbs. 18 oza, instead of 134 lbs. In 14 experiments, the deflection of the unchilled har was from 0, with a weight of 3 qrs. 4 lbs., to 3437, with 6 cwts. 1 gr. 4 lbs.; while the duced to 1-078, and the weight was only 13 hz. 15 ozz., insecut of 103 hz. In 14 experiments, the deflection of the unchilled bar was from 0, with a weight of 3 qzs. 4 hz., to 3437, with 6 cwts. 1 qr. 4 hz.; while the chilled bar deflected, with a weight of 7 cwts. 0 qzs. 4 hz., 5321, and broke with a weight of 7 cwts. 1 qr. 4 hz.; the unchilled bar broke with 5 cwts. 2 qzs. 4 hz. The proportions of the strength of chilled and anothilled bars of cast-iron will, from the above experiments, be found as follows—viz.: as the area of the enchilled bar, 1-125 in., is to the area of the chilled bar, 1-1078 in., so is 6-28 cwts.—the weight borne by the former—to 6-01, the weight which would have been borne by an unchilled bar of the same area—the process of chilling thus giving a superior strength of 17 per cent. The second experiment was made on four bars, cast in the form of a double-faced railway rail, 1½ in. deep, ½ in. wide at top and bottem, and ½ in. in the centre—the length of each har was 18 in., and 15 in. between the supports. No. 1 was cast in green and; No. 2 in dry sand; No. 3 and in a chill; and No. 4 in a chill, and afterwards annealed. No 1 weighed 32-5 ozz, bore 1932 lbs., and deflected '130 in. No. 2 weighed 30-5 ozz, bore 1938 lbs., and deflected '141 in.; No. 3 weighed 34-5 ozz, bore 2520 lbz, and deflected '953 in.; and No. 4 weighed 34-5 ozz, bore 2520 lbz, and deflected '144 in. The advantages in favour of cast-iron, treated as No. 4, is evidently little less than 100 per cent. over No. 1, and 300 per cent. over No. 3. With respect to the microscopic nature of the fracture, Nos. 1 and 2 presented nothing unusual; No. 3 presented a very singular appearance—it was highly crystallised, the whole formed of threads, radiating from the centre to the outer edges of the curves; No. 4 broke in two places, and showed the same granular structure as Nos. 1 and 2—the grains being much finer, resembling cast-steel.

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This design consists in a novel configuration of wrench, or "spanner," whereby we are enabled to adjust the jaws to any required space (commensurate with the size of the instrument), with greater rapidity than here-toore, and to hold the moveable jaw secure in its position, without the employment of a screw, or reora. The drawing represents a side view of the improved wrench, or "spanner," showing the stem of the wrench, the top jaw, and the ander moveable jaw. The front edge of the stem is serrated, and corresponding indentations are made in the same end of the slot in the lower jaw. At the other end of the slot is a cam-piece, provided with a thumb-piece, or lever, which, at the same time, supports the cam-piece in its place in the slot of the jaw, and allows of its being moved round. When the wrench, or spanner, is required to be adjusted, to take hold of a serew head, or nut, the smaller radius of the cam-piece is brought to the back edge of the stem, and thus space is left for the jaw to be slidden up or down—the jaw having been set to the required position, the thumb-piece is pressed into the position shown in the drawing, whereby the larger radius is brought into contact with the stem. The pressure thus put on the stem causes it to lock its serrated edge in the indentations of the slot of the moveable jaw, and thus that jaw is held firmly in its place. The design is registered by Messrs. Smith and English, engineers, Princesstreet, Leicester-square, and is much approved of, being adopted by several of the large engineering firms and railway companies. whereby we are enabled to adjust the jaws to any required space (com-



[Specification of patent granted to John Ray, Esq., of Ringmore, near Teignmenth Deves, for a carriage alaram.—Bogatered 6 and Vic., cap. 65.]

Although railway companies do not seem over zealods in the cause of railway safety, noither the public nor inventors have lost sight of the subject—thus we have another plan, for effecting the communication between passenger and guard, upon the occurrence of accidents to the former, to present to car readers. The proposition is one possessing much merit, and requiring no cumbrous arrangements, or connections, extending throughout the whole train, but is a simple apparatus, easily fitted and arranged. The description given by the author is, in effect, as follows:—The accompanying diagram exhibits two vicers of this design, drawn to a geometrical scale—log. I being a transverse and vertical section of the alarum, showing the relative position of the several parts, as they would appear after using the apparatus; fig. 2, a transverse and vertical section of a first-class railway carriage, showing the application of this design thereto; fig. 3, an edge view of the polished reflector, hereafter referred to. A A, a metal casing, the lower portion of which, marked B, is formed cylindrical, and the upper portion, C, is formed rectangular. This cassing contains the following parts:—D, a helical spring, fitting loosely in the part, B, and retained therein by a screw-cap, E; F, marks a rod, to the upper extremity of which is affised a highly-polished double convex reflector, G; and to the lower extremity of this rod there is fixed a piston, or plate, H, which fits loosely in the part, B; L, a spring-catch, for retaining the parts; F, G, H, in the position exhibited at fig. 1; K, a metal plate, fixed to the bottom of the part, C, of the casing, A A, having a hole at its centre, through which passes, and is guided, the rod, F; L, a Hd, or cover, hinged to the roof of the carriage (as shown at fig. 2), being held and released in the manner following:—To the part, C, of the casing, A,

has obtained a patent for a new description of wheel, which may be applied to carriages for common roads, or for railways. The spokes are constructed of "acctoral shaped foops" of corrugated or hollow iron, of any form of acction; or of flat, round, or oval rods of iron, or of angle or r iron. These spokes are placed with their flat sides in contact, radiating from the centre, and are fastened together by bolting, rivetting, or welding; the nave is then cast upon the inner ends of the spokes, after which the spaces at the outer part of the spokes are filled, or partly filled, with wood, iron, or other suitable material, and a tire, put on in the usual manner, completes the wheel. For railway wheels, a straight radial spoke is pinced between every pair of sectoral spokes.

is pinced between every pair of sectoral spokes.

IMPROVEMENTS IN GAS MAKUPACTURE.—Mr. R. Walker, of Rochdale, Lancasbire, has taken out a patent for an improvement in the mode of fixing the vertical tubes which connect the retorts with the hydraulic main, and convey the gas thereto. It merely consists of carrying the vertical pipe about 2 in. downwards below the inside roof of the retort, instead of bolting them to a flange on the outside, as is the custom at present. It is well known that, by the present method, the tubes are continually getting choked with tar, &c., and require what the workmen call "jumping;" but, by this simple alteration, the patentee states, that as the tar ascends the sides of the retort, instead of passing up the vertical tube, it will settle round it, and drop off on to the bottom of the retort—the pipes remaining clear.

### Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK.

MRETIKGS DURING THE ENSUING WEEK.
Windsor, Staines, and South-Western Railway—Nine Elma Station, OnGeneral Mining Company for Ireland—offices, Dublin, at Elmven.
London Joint-Stock Bank—offices, Eleven for Twelve.
Defender Fire and Life Insurance Co.—New London Hetel, at One.
Cleveland Mining Company—Marsion, at Two.
Cleveland Mining Company—Marsion, at Two.
Cleveland Mining Company—offices, at Two.
Consolidated Investment and Amurance Company—offices, at One.
Wheal Sophia Mining Company—offices, at Twelve.
General Annuity Endowment Association—London Tavern, at Two.
Londonderry and Emiskillen Railway—offices, at Twelve.
Globo Insurance Company—offices, at One.

elings of Mining Companies are inserted among the Mining Intelligence.]

The meetings of Mining Companies are inserted among the Mining Intelligence.]

REGENT'S CANAL COMPANY.

The half-yearly meeting of this company was held on Wednesday, at the establishment, City-road Basin.

J. E. D. Bitthurs, Esq., having taken the chair,

Mr. Raw moved, that the minutes of the committee meetings be read to the assembly, which, after some discussion, was not seconded.

The Ghahiman read the report of the committee, which showed that the balance of the profit, for the half-year ending the 30th of Sept. last, including 650t. 12s. 3d. remaining from a former account, was 18,760t. 6a. 2d. being anti-cient for a dividend of 12s. 6d. per share. The tomoages were 586,018, realising 21,969t. 10s. 7d. The haulage of the barges had worked satisfactorily. A sum of 8000t. had been paid to this company by the East and West India Dock and Birmingham Railway Company, to avoid its opposition. Several additional works would be erected at Canden Town, so as to connect the canal with the London and North-Western Railway. The reserve fund was 11,161t. 10s. 7d.—Mr. Raw complained of the committee having spent upwards of 10,000t. in law and engineering in the late railway project, and said, that an arrangement ought to have been made with the two sets of shareholders, before any application was made by them to Parliament.—The Chaliman, in reply to Mr. Savage, said, that the customers of the company had been greatly inconvenienced, he knew, from the great drought which had prevailed, but that the late rains had put all things to rights. He was happy to say, that the ton-nages had increased 26,000 over the corresponding half-year of 1846.—Mr. Hieusens doubted if the system of towing, adopted by the committee, would turn out a saving to the company.—The report having been adopted, Mr. Ghenn proposed, that the report of the committee should be printed aone days previously to the half-yearly meetings, which was agreed to; and, after a vote of thanks to the chairman, the meeting adjourned.

Hungerford Marker Company-s off

HUNGERFORD MARKET COMPANY.—The half-yearly general meeting of proprietors was held at the company's offices, Villier's-atreet, Strand, on Tuesday last—MARTIN STUTELY, Esq. in the chair.—The directors' report referred to the unavailing efforts of the Charing-cross Bridge Company to obtain powers from Parliament to sell the bridge, and to the rescinding of the contract for sale and purchase thereof, with Messrs. Jackson, Walmsley and others; and congratulated the proprietors on the very satisfactory progress of the market company's affairs. The report was condially received by the proprietors, and a dividend of 27. 5s. per share was declared, and, after a vote of thanks to the chairman and directors, the meeting adjourned.

PATENT FOR IMPROVEMENTS IN MANUFACTURE OF TUBES.

a dividend of 2f. 5a, per share was declared, and, after a vote of thanks to the-chariman and directors, the meeting adjourned.

PATENT FOR IMPROVEMENTS IN MANUFACTURE OF TURES.

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NEW RAILWAYS—Depositing the Plans, &c.—Tuesday being the last day allowed by the Act of Parliament for depositing the plans and sections with the Commissioners of Railways at the Board of Trade, Whitchall, a few companies deposited their plans; the majority, however, had been left during the past week, consequently there was not that excitement and confusion that characterised the 30th November, 1845 and 1846. The Acts for which it is intended to make application during the present session amount to 148; comprising 15 for Irish lines, and 5 for Seetch ones. The total number of plans, &c., lodged in 1848, was 2603 and in 1845, 678.

NEW MOTIVE POWER.—The Courrier de Lyons of the 24th just, mentions maltine force;—"It is now some time since the towns of the towns.

The Regulation of Holloway's plant in 1885, 678.

New Motive Power.—The Courrier de Lyons of the 24th inst. mentions the following discovery of a new motive force:—"It is now some time sines the idea of simploying ether as a propelling force was surgested. Our townstamn, M. Tromblay, has reduced this theory to practice. A machine worked by the steam of ether has been in full operation for the last six days in a glassoutting manufactory in the Guillotiers. Its power is equal to that of 20 herees."

The Refutation of Holloway's Pulis and Onvinent in first Cura or Remembrane. He was Indica, where this accruciating complaint is very prevalent, and the severity of the disease is much inforcessed by the nature of the employment of the inhibitants, so remedy has been tried with the machine results as Hollway's oliminent and pills. All persons afflicted with rheumatism should have immediate recourse to these invaluable medicines which are so certain and was for in their effects. They are, also, equally efficacious (frequently when every other remarks has hailed), in the only of all descriptions of wens, temours, unnatural enlargements, and giandular swellings as likevise contractions and stiff joints. Sold by all drougts, and at Protessor Holloway's establishment, 244, Strand, London.

CAMERON'S COALBROOK STRAM-COAL COMPANY.—We understand, the Lords of the Admiralty have, by a recent letter, admirted Cameron's steam-coal to be offered for the supply of her Majesty's steam-vessels. The coal mines in the neighbourhood of Loughor and Coalbrook are being worked with increased vigour in consequence of the great demand for the steam-coal, and in anticipation of the opening of the Loughor Railway, which, by forming a junction with the Coytermouth line, will effect a direct communication between the coal-fields, which comist of upwards of 1300 acres, and the port of Swansea. The projected docks at Swansea will, it is hoped, be shortly commenced, as this great mineral district will mainly contribute to their prosperity.

METHOMETRISHIRE SLATE AND SLATE-SLAD COMPANY.—The directors, we understand, have determined to prosecute the workings of their valuable quarries with energy; and we doubt not that, ore long, they will rank among the first in North Wales, for produce and profit to the shareholders. We learn, that an eminent surveyor is now engaged in preparing a report upon the works, and the most advantageous mode of extending them.

CWMANON WORKS.—We observe a paragraph in our contemporary, the

Cwstavon Works.—We observe a paragraph in our contemporary, the Cambrian, of last week, relative to these works, which contains misstatements, calculated to deceive the public, and to frustrate and injure the operations of the proprieters of these extensive works. It is not true that the proposed reluctions were so great as 20 per cent; and it is perfectly ridiculous to suppose that the furnace manager would promise or accode to terms which were related by the manager of the works. With regard to the stock of coal, the writer's ideas of quantities must be rather extensive—for, although the stock in the latest of the works, it exceeds two months' obsaunption.

consamption.

LLYNVI IRON-WORKS.—A correspondent also contradicts the paragraph we copied into the Journal of the 20th Nov., from the Swansea Herald, respecting these works being at a stand for want of coal; the company, it appears, have at least 10 weeks' stock in their yards. The writer adds—"The mill and forge have certainly been at a stand for the last week, not for want of coal, but for the purpose of affixing an additional mill to the machinery aleady in use. The colliers have returned to their work, at a reduction of 0 per cent. the same reduction has been made at Maestag, Garth, Tondu, and left Cwsc; and, unfortunately, there are many colliers in the district unemployed—therefore, they have not left, and found employment elsewhere."

IBON TRADE IN SCOTLAND.—Notwithstanding several recent complaints of dulness in the iron trade, the minerals on the estate of Kerse, on the banks of Doou, Ayrshire, have been let to an English company, who are to commence operations in January next. The iron-works at Dalmellington, in the same county, will soon be working, the enginesbeing now in process of construction.

county, will soon be working, the enginesbeing now in process of construction.

The Rolling and Compressing Iron Company.—In the Court of Common Pleas, yesterday, an action was brought by Mr. Bush, an engineer, against Sir William Gossett, and others, to recover 4112. 2a, for work and labour alleged to have been done, and money paid at their request. It appeared that Sir William Gossett, and other gentlemen of great respectability, formed themselves into a company in 1840, for the purpose of carrying out some improvement in the manufacture of iron, and that the company was called the Rolling and Compressing from Company. The plaintiff was engaged by them to sid the company in procuring an Act of Parliament, which was obtained in May, 1841, and hopes were held out to him, that he would aftervards be engaged at a considerable salary. His salary was afterwards fixed at 2502 a year; but, at the end of 1841, he was told that his services would be no longer required. He then brought an action against the secretary of the company, who was made the responsible officer under the Act, for the above amount; but Lord Denman, before whom it was tried, held that the secretary was only responsible for what became due after the passing of the Act, and his decision was, subsequently, confirmed by the full court. The plaintiff mow brought the present action. The jury found a verdict for the plaintiff—damages, 2001.

ACCIDENTS.

North Pool Mine.—J. Bilght, aged 15, fell from one of the ladders, as he was des fag to his work, and was, we are sorry to say, killed.

To now wors, and was, we are sorry to say, anison.

Cross-Trees Colliery, Durham.—T. Newton was found dead in the main coal seam here—his head was lying is some valor, about 10 inches deep; and, being subject to fits, is upposed to have been seised with one while at work.

West Bromwich.—P. Norton, aged 15, was killed by a fall of coal while at work.

Rirkby Irelath, Whitchwess.—J. Lindow fall from the top of Smithey Hill Quarry (45 ards), and was, unfortunately, killed.

\*\*Eirbby Preisth, Whitehesen...J. Lindow fell from the top of Smithoy Hill Quarry (4 yards), and was, unfortunately, killed.

\*\*Lichy Colliery, near Moshyn, Flintskire...A terrific explosion, arising from fire-damy, took place at this colliery, at which it was erroneously reported Mr. Wm. Ramsden, the colliery manager and surveyor of the works, had been killed. It will be gratifying to Mr. Ramsden's numerous friends, to learn that such was not the fact: Mr. Ramsden, the colliery manager and surveyor of the works, had been killed. It will be gratifying to Mr. Ramsden's numerous friends, to learn that such was not the fact: Mr. Ramsden was injured by a fall, but is speedily recovering from its effects.

\*\*A Colliery Flooded...\*\*Astrone Escope of Twenty Colliers...\*\*Westgate Common Colliery, near Wakefield, and its two shafts, 30 yards deep, saddenly filled with water on Wednesday, and 20 colliers at work narrowly escaped with their lives. At 10 colock in the morning of that day, the men were at their usual employment in the pit. Clark, a man engaged in a part of the pit lying in another directions from most of the other colliers, discovering that there was an nunsual softness and yielding in the material upon which he was working. At first the matter did not attract his attention to such a degree as to call for any unusual precatition on his part. But he soon found that water was gradually cozing, and finding its way through the bed on which he was st work. He immediately proceeded to the other part of the works, and alarmed his fellow-workmen. Arrangements were made for the conveyance of the men out of the pit; searcely had they been completed to the other part of the works, and alarmed his fellow-workmen. Arrangements were made for the conveyance of the man was brought to the mount of the pit as quickly as the circumstances would possibly allow. They had not remained long round the top of the shaft before they saw the water still rapidly rising; and within three-quarters of an hour from the first alarm both pit

augh Colliery, near Rochdale—Three Lives Lost.—J. Rhodes, aged 19,1 J. Whit and J. Order 19, coal-miners, when about 560 yards up the mine, were suffect foul air which had come from some old works in the mine.

Fir Grove, Milnrow, near Rochdale.—As. E. Clogg, aged 12 years, was a t, the chain broke, when he fell to the bottom, and was killed. Fir Gross, Milwoss, near Rechelel.—As. E. Clegg, aged 12 years, was accunding the Lathe chain broke, when he fell to the bottom, and was killed.

Inundation of Collieries and Loss of Life.—Early on Wednesday morning a lamentable currence took place close to the town of Wighn. The River Douglas broke down one (its banks, which had been weakened by the workings of some old coal mines, and the ster washed its way through these old workings into those of collieries now in operation. The censequence has been the loss of four men, two boys, and 12 horses, which does in the mines of the Ince Hall Colliery all night, and had no means of except on the rushing torrents of water which came in upon them. The barrier between the ver and the upper workings was occumpletely swept away, that the whole of the water the Douglas (usually a stream of some 18 in. or 2 ft. deep, but now by the recent heavy ins swellen to the height of 8 or 9 ft.), were emptied into the chann, and the workings are coal field of great area, say two mills by one-half of a mile, have been inandated, see colliery in which the loss of life has occurred is half a mile from the point at which a water broke into the old workings. These old workings approach the surface of the pound to within about 10 or 12 ft., and the bed of the river to within about 13 or 14 in. be present mines are upwards of 200 yards deep in some places, and the cause of the chemic, of course, lies in the consection of these sets of workings, which is set down to expisity of some intermediate coal-owners, who removed the burtiers former miners dieft for the sake of the additional coal which they were enabled to get by that means, two works of not less than half-a-degen collierts are stopped by the inundation, and it estimated that several weeks must elapse ere the water is cleared from the lower lovels the mines, and the bodies of the unfartante workpeople can be got out. Besides this, the minerian, upwards of 600 colliers are thrown out of work. The rush of the water is fearful, and so

COAL MARKET, LONDON.

PRICE OF COALS FER TON AT THE CLOSE OF THE MARKET.

MONDAY — Adair's Main 16 G-Buddle's West Hartley 18 9—Clavering's Tanfield 16—Hasting's Hartley 18 9—Howard's West Hartley 18 6—Kow Tanfield 16 G-Original Tanfield 16—Pontop Windoor 16—Tanfield Hoof 17 G-Townley 16 G-West Hartley 19 9—Howard's West Hartley 18 6—Kow Tanfield 16 G-Original Tanfield 16—Pontop Windoor 16—Tanfield Hoof 17 G-Townley 18 G-Garke and Co. 20 3—Clemell 18 6

—Glarke and Co. 18 G-Gosforth 20 3—Helley 20 3—Killingworth 20—Hideli's 20 3—Washington 19 3—Whartleiffs 20 3—Eden Main 29 5—Bell 39 9—Belmont 29 9—Braddyl's Hetton 21—East Hetton 20 3—Haswell 21 3—Hotton 21 3—Keepfer 21—Lambton 21—Russell's Hetton 21—Shottons 20 3—Eden Main 29 5—Bell 39 9—Belmont 20 9—Braddyl's Hetton 21—East Hetton 21 3—Shottons 20 3—Heaven's 21 3—Whitwell 20 6—Hartlepool 21 4—Hadson's Hartlepool 20 6—High Thornley 18 6—Heugh Hall 20—Kelloe 21—Adeladd Teos 29 3—Cowndon Tees 20 3—Denison 19 6—Hichardson's Pens 19 6—Seymour Tees 20 3—South Dursham 20 3—Tees 21—West Cornforth 20—West Peass 17 9—West Tees 19 6—Seymour Tees 20 3—South Dursham 20 3—Tees 21—West Cornforth 20—West Peass 17 9—West Tees 19 6—Gentle Hartley 19 9—Bell Andrew 18 3—West Market, 147; sold, 124; unsold, 23.

WEDNESDAY —Adair's Main 16 6—Carr's Hartley 18—Sold Hoor 17 6—Townley 46 9—West Hartley 19 3—Wylam 17—Wall's End Belmont 20 9—East Hettou 20 3—Betton 21 3—Lambton 21—Russell's Hetton 21—Seymour Tees 20 3—South Dursham 20 3—Howard's West Hartley Howard's West Hartley Howard's Hartley Howard's Hartley 18 18—Kew Tanfield 16 6—Original Tanfield 16 6—Original Tanfield 16 6—Original Tanfield 16 6—Original Tanfield 16 6—Gray's Hartley 18—New Tanfield 16 6—Original Tanfield 16 6—Gray's Hartley 18—New Tanfield 16 6—Original Tanfield 16 6—Gray's Hartley 18—Solios at market, 33.

FRIDAY—Adair's Main 16 6—Helley's Hartley 18—New Tanfield Moor 17 6—Townley 16 6—Helley 20—Kew William 18 3—Classos and Co. 18 2—Helley 20—Solios 18 3—Classos and Co. 18 2—Helley 20—Solios 20 3—South Dursha

TRACTORS.—THE LORDS COMMISSIONERS OF THE ADMIRALTY GIVE NOTICE, that they are ready is RECEIVE TENDERS FOR SUNDRY WORKS to be executed at Holyhead, in connection with the intended Harbour of Refuge, comprising the FORMALTON of MALLWAYS and the ERECTION of SEA WALLS.

Frans, sections, specifications, and conditions, will be open to ibe impaction of infending contractors, at the office of Mesars. Rendel and Beardmore, civil engineers, 8, Great George-street, Westminster, from Monday, the 8th day of November, will Monday, the 6th day of December saxt, between the hours of Ten e'clock in the afternoon.—Tenders must be delivered at the Admiralty, on or before Twelve o'clock noon, on Tacesday, the 7th day of December, according to a form that will be furnished at Mesars. Rendel and Beardmore's offices.

Their lordships will not be bound to accopt the lowest tender.

Admiralty, Nov. 4, 1847.

PAILS.—FOR SALE, BY PRIVATE CONTRACT, FIVE
THOUSAND TONS of WROUGHT-IRON RAILS, of such quality as those now
USED by all the ENGLISH RAILWAYS,—To be delivered on board ship, or on a wharf
in the Bristol Channel, in equal proportions, in the months of January, February, March,
April, and May next; and to be made to the form given by the purchasor, of not unusual,
equal top and bottom, or single-headed form. The make is first-rate, and the contract
will be handed over to the purchaser for direct communication with the maker, if desired.

Approved bills, at six months, or debentures, of an approved Railway Company, at 13
months, will be taken in anyment. Approved bills, at six months, or debentures, of an approved six and appro

CALEDONIAN RAILWAY—LOANS on DEBENTURES
The CALEDONIAN RAILWAY COMPANY are prepared to RECEIVE TEN
DERS OF LOANS ON DEBENTURES, in sums of not less than £500, for three or five
vears—bearing interest at the rate of 5 por eent, per nanum, payable half-yearly, in Edinburgh, Giasgow, Loudon, Liverpool, Manchester, or Bristol.
Tendors to be addressed to this office. Parties may also communicate personally with
Messrs. Foster and Brnithwalte, 68, Old Broad-street, London.

By order of the directors, D. RANKINE, Treasurer.
Caledonian Railway Office, 122, Princes-street, Edinburgh, March 26, 1847.

BIRMINGHAM AND OXFORD JUNCTION RAILWAY COMPANY.—FURTHER CALL OF FIVE POUNDS PER SHARE—ctors having made a further CALL of FIVE POUNDS per share upon the n archolders fit his undertaking, PAYABLE on the 20th day of December no next, to the persons and at the places hereinafter m me or one of them (that is to say):—

come or one of them (that is to say):—

To the Birmingham Banking Company, at their bank in Birmingham.

To Messrs. Attwoods, Spooner, and Co., at their bank in Birmingham.

To Messrs. Jones Loyd and Co., at their bank in Lot.bury, London.

To Messrs. Spooner, Attwoods, and Co., at their bank in Grace-church-street, London

To Messrs. Spooner, Attwoods, and Co., at their bank in Grace-church street, London

To Messrs. Moss and Co., at their bank in Liverpool.

And, in default of payment being so made, the shareholders making such default whee charged interest, at the rate of 45 per centum per annum, from the last-mention alte, until the call is actually paid.

A circular will be sent to each shareholder, which must be deposited at the banker rhen the call is paid.

By order of the board of directors,

24, Bennett's-hill, Birmingham, Nov. 10, 1847.

JOHN W. KIRSHAW, Sec.

BIRMINGHAM AND OXFORD JUNCTION RAILWAY
TO THE DIRECTORS OF THE BIRMINGHAM AND OXFORD JUNCTION
RAILWAY COMPANY.
WE, the undersigned, being shareholders in the Birmingham and Oxford Junction

BIRMINGHAM AND

RAILWAY COMPANY.

WE, the undersigned, being shareholders in the Birmingham and Oxford Junction Railway Company, holding in the aggregate more than five thousand shares (that is to say, more than one-tenth part of the capital), therein do by this writing under our hands require you forthwith, on the receipt hereof, to call an EXTEAORDINARY GENERAL MEETING of the shareholders of the said company, for the following objects or purposes, that is to say, for the shareholders of the said company, for the following objects or purposes, that is to say, for the purpose of considering its subject of an action lately commenced against the said company, by Messicars Samuel Morton Peto and William Eastled, and also the several actions which have been commenced in the name of the said company against various shareholders therein, for enforcing payment of a call made, or purporting to have been made, on the twelfth day of June, one thousand eight hundred and forty-seven; and for the purpose of considering and determining upon and giving such directions as may be thought fit, as to the course to be adopted by the said company with reference to such actions respectively, and the subjects thereof respectively, and of considering the propriety of appointing, and if so thought fit of appointing, under the common seal of the said company or otherwise, and directing the employment of an attorney and solicitors, or a said entire shall think fit; and resolve, and also to consider the propriety of removing, and if thought proper to remove, or discontinue the employment of any person or persons who have, or has, sected as attorneys or solicitors, or as attorney or solicitors of the said company, and giving such directions, and making such orders as the said meeting may deem expedients in reference to, or consentation on the temployment of any person or persons who have, or has, sected as attorneys or solicitors, or as attorney or solicitors of the said company, and to determine whether any making such orders as the said quential upon, any such and also to take into considerance, and from any of them; and also to take as to soliciting, prosecuting, supporting, or and if any, what measures should be taken as to soliciting, prosecuting, supporting, or and if any, what measures should be taken as to soliciting, prosecuting, discontinuing, with drawing, or abandoning, any notices or other proceedings which have been, or may be given or taken with reference to any such fills or bill, or other proceedings in Farliament and giving all such directions as to such meeting may seem proper in reference to any such matters.—Witness our hands, the 5th day of November, 1847.

Elias J. Mozley
T. D. Hornby
Edward Cropper
William Reynolds, Jun.
Robert Bickerstoth
William Hall
Robert Jones
Thomas Hould Hope
Thomas Goodier
Lawin Mozley
Thomas Arthur Hope
Thomas Goodier
Charles Mozley
Josiah Jones
Josiah Jones
Jones Hosele
Abalom Watkin
Henry Tootal
W. John Boale

ORDINARY GENERAL MEETING of the shareholders of the Birming-ore Boyal Hotel, in Birmingdam, on Tuesday, the 28th day of December next, at half-past Two o'clock in the afternoon.

JOHN W. KIRSHAW, Socretary.

WHEAL J.AWP BATON. The requisition above set forth having been presented ham and Oxford Junction Railway Company, Notice is ORDINARY GENERAL MEETING of the shareholders of

WHEAL LAWRENCE COPPER MINE, BRIDFORD,

IN THE COUNTY OF DEVON.

TO BE WORKED ON THE "COST-BOOK" PRINCIPLE. TO BE WORKED ON THE CONTROL OF THE C

mine.

HENRY WESTON, Esq.
FRANCIS T. RODD, Esq.
Mining Engineer—Mr. Henry James.
Purser (pro tem.)—Mr. Lewis, Exeter.
Secretary (pro tem.)—Mr. N. Taperell, Exeter.
London Agent—William Henry Smith, Esq.; 16, Angel-court, To show application for Shares may be made. 53

The West of England and South Wales District Banking Company, Exeter
Mesers. Glyn and Co., London.

Wheal Lawrence is situated in the parish of Bridford, in the county of Devon, about seven miles north-west of Exeter. This valuable and extensive mining set has been recently granted, by Sir L. V. Palk, Bart, at one-fifteenth does, for a term of 21 years. This sett joins the Wheal Anna Maris on the west, and extends nearly one mile east from it, on the course of the lodes, and about half a mile wide from north to south. It is considered, that the south lode runs into the lands of the Rov. Richard Stevens, of Culverhouse, from whom a sett has been obtained, on the same terms as Sir L. V. Palk's.

The lodes in Wheal Lawrence, going east, make themselves in a very high hill, and will, by driving 100 fathoms on the course of them, get from 20 to 30 fathoms backs. The lodes average in size about 5 feet wide, and are of the most promissing appearance. Excellent stones of rich yellow and black oxide copper ore, have been produced from the lodes at a depth of 7 feet, and there can be no doubt of their producing a great quantity of copper ore above the level of the river. From the geological survey of Sir H. T. De la Beche, Kirt, it can be seen that Wheal Lawrence and Wheal Anna Maris, are situated in precisely the same sort of strata as the celebrated copper raines near Tavistock. A general meeting of the shareholders will be convened as early as possible, and all the preliminary business arranged as to the future working of the mine. The operations of the company will be carried on muster the Cost-book Principle, and no shareholder will

of the company will be carried on under the Cost-book Principle, and no shareholder will be liable for any expenses incurred after the relinquishment of his or her shares.

REPORT.

To the Committee of Management of Wheal Leavence Copper Mine.

GENTLARKE,—According to your request we beg to hand you a seport of the Wheal Lawrence Copper Mine, in the parish of Bridford, Devon. There are seven east and west lodes, running through this extensive mining sets. Three of them we have opened, and sunk a few pits. The first we sunk on, is a lode 11 ft. wide, made up with gossan, nundle, soft agar, and some very good stones of rich yellow copper ore. The second lode is about 3 ft. hig. of a very kindly appearance, producing some excellent stones of copper ore, and rich stones of silver-lead ore, with gossan, peach, mundle, &c. We, therefore, think that the great cross-course comes on very mear to where we have cut this lode, and that makes it produce the silver-lead; if so, there cannot be much doubt of the east and west lode producing a large quantity of copper near the cross-course. The third lode is about 5 feet big, with gossan, spar, mundle, and copper ore. We have commenced cutting leats to bring home the water to work our machinery, for the pumping the water from the mine. We intend to sink on the lode samed drist in this report, and that shaft will command five of the lodes by driving cross-cuts from one to the other. We hopse to fluish our machinery in three weeks from this time, when we shall commence sinking. We purpose to sink 15 fathoms, and cross-cut all the lodes, and from the very encouraging appearances at or near the surface, we consider that we may safely calculate on having some good bunches of copper or as it his level. From all the indications, we feel that we are justified in saying we shall have a good mine.

HENRY JAMES, 7 Mining Dated Nov. 13, 1847.

Just published, Part I.,
COMBUSTION of COAL, CHEMICALLY & PRACTICALLY
CONSIDERED. With solomed picture. CONSIDERED. With coloured plates.

By CHARLES WYF WILLIAMS, Esq.

London: Simpkin, Marshill, & Co., and J. Weale—Birmingham: Wrightson & V.

SSAYING AND ANALYSIS.—Mr. MITCHELL begs inform the MANAGERS, &c., of MINES, SMELTING-WORKS, and MANUFARS, that he still continues to CONDUCT ASSAYS and ANALYSES of all PITS, metallurgical and manufacturing, at his LaBoratory.

23, HAWLEY-ROAD, KENTISH TOWN, LONDON, hich address communications are to be forwarded.—Instruction in all branches ring and analysis as usual.

THE PATENT SAFETY FUSE.

OPERATIONS.—This article affords the SAFEST, CHEAPEST, and most EXPEDITIOUS MODE of effecting this very heartfold. SAFEST, CHEAPEST, and most EXPEDITIOUS MODE of effecting this very heartfold. From many testimonies to its usefulness with which the manufacturers have been favoured from every part of the kingdom, they select the following letter, recently received from John Taylor, Esq., FR.S., &c.,—"I am very glad to hear that my recommendations have been of any service to you; they have been given from a thorough conviction of the great usefulness of the Safety Fuse; and I am quits willing that you should employ my name as evidence of this."

Manufactured and sold by the Patentees, BICKFORD, SMITH, and DAVEY, Carloberne, Cornwall.

DATENT IMPROVEMENTS IN CHRONOMETERS. WATCHES, AND CLOCKS.—E. J. DENT, 82, Strand, and 33, Gockspurvatch and clock maker, BY APPOINTMENT, to the Queen and his Reyns! Hrince Albert, begs to sequaint the public, that the manufacture of his chrono vatches, and clocks, is secured by three separate patents, respectively granted it 840, 1842. Silver lever watches, jewelled in four holes, 6 gs. each; in gold case is to £10 extra. Gold horizontal wa ches, with gold disks, from 8 gs. to 12 gs. ea DENT'S PATENT DIPLIEDOSCOPE, or meridian instrument, is now ready for deli-amphilets containing a description and directions for its use is. each, but to ensigners gr

PLECTRIC TELEGRAPH COMPANY.

COMMERCIAL TELEGRAPH. The works of the lines for commercial communications, between the places sum clow, embracing a SYSTEM of TELEGRAPHS for COMMERCIAL PURPOSS and distinct from that reserved for the special use of railways, being so far adva admit of their completion by the commencement of the coming year, the director at the time has now arrived, when it becomes their duty to make known the a cents which they contemplate for the accommodation of the public.

STATIONS will BE OPENED, in central situations, in the PRINCIPAL TOWNS, whence MESSAGES and DISPATCHES will be FORWARDED TO, and RECEIVED FROM, all the OTHER STATIONS of the ELECTRIC TELEGRAPH COMPANY. In order to give to Merchanis. Bankers, Manufacturers, and all connected with tra-the greatest possible amount of information, a ROOM will be RESERVED in each of COMPANY'S STATIONS for SUBSCRIBERS, in which will be received, tabulated, a exhibited, all Intelligence of Commercial or Public Interest—for instance:

SHIP LISTS, from the various Ports.
SHARE LISTS, from the various Exchanges.
PRICES CURRENT.

STOCK EXCHANGE LISTS. CORN MARKETS, from the various PRICES OF LIVE STOCK, &c. &c.

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EXAMPLES.

& Sum.	Prem.	Year.	Bonus added.	Cash.	of Premium.	Borrow.
60 £1000	£0 3 4	{ 1887 1838 1839 1840 1841	£217 15 1 198 3 0 168 11 10 116 7 6 111 6 8	74 1 9	£16 0 4 13 10 9 11 3 1 7 18 10 7 10 4	£445 0 0 395 11 1 346 2 3 396 13 4 347 4 5
The div	ision of p	rofits is	annual, and t	he next will b	e made in December	· Charles

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December 4, 1847.